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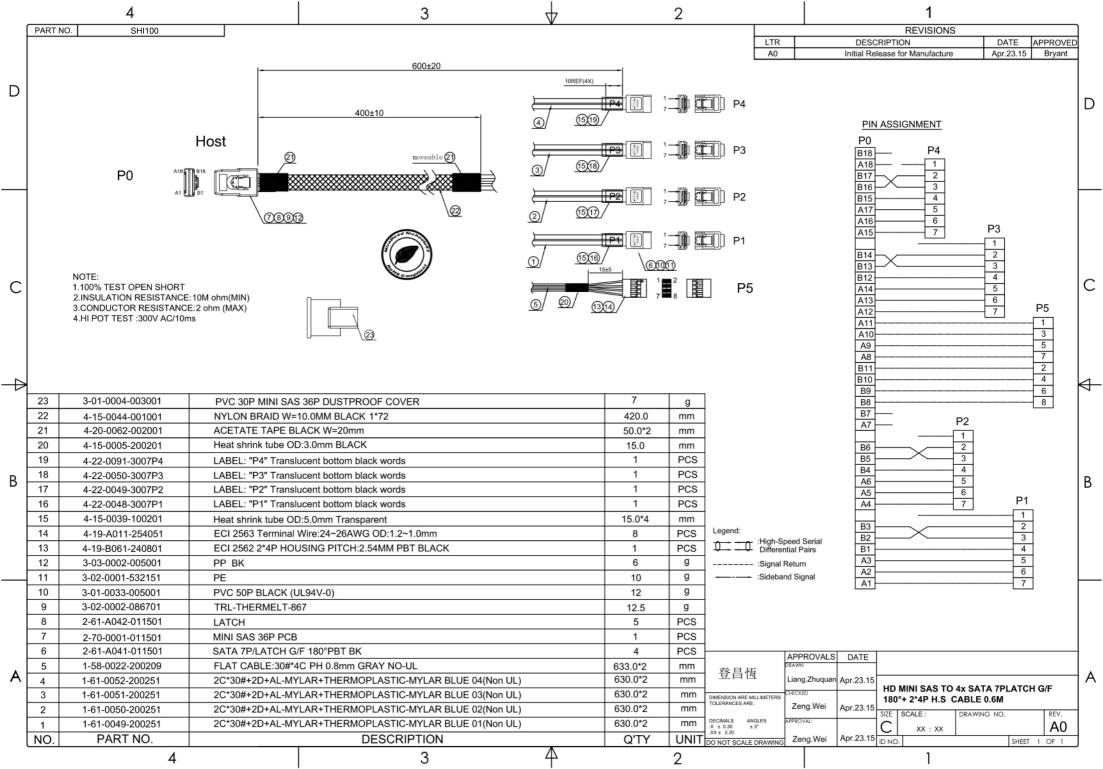
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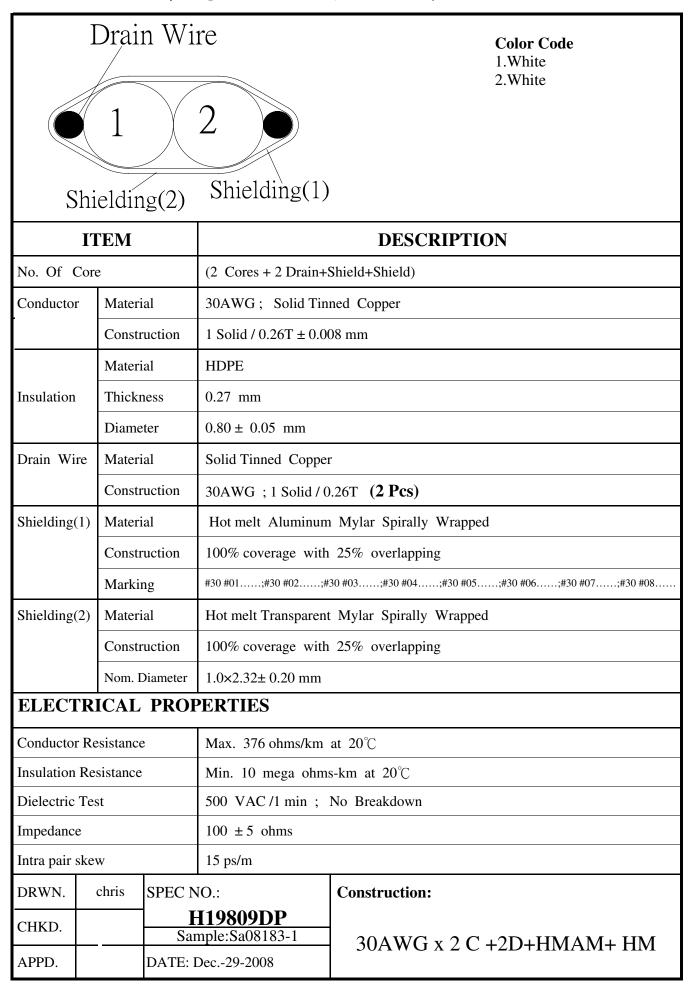
Product :	SHI100		
Part Number :			
Description :	. 6		9
Version :			
Date :	11, July, 2017		
Customer :	研華股份有限公司		
Customer approval s	seal:	UPMOST ap	proval seal:
		有限公司份	登昌恆
Approved by		Approved by	
Checked by		Checked by	
Prepared by		Prepared by	

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東莞德宏電線電子有限公司





Test Report No. CANEC1505923503 Date: 30 Apr 2015 Page 1 of 11

HOPERISE CONDUCTOR(DONGGUAN) COMPANY LIMITED

QIAO ZI REGION CHANGPING TOWN, DONGGUAN CITY, GUANGDONG PROVINCE CHINA

The following sample(s) was/were submitted and identified on behalf of the clients as: TINNED COPPER

WIRE

SGS Job No.: CP15-020403 - GZ

Client Ref. Info.: Sample Description:silvery plating on metal

Material:Base material Cu

Sample Description:silver color plating

Date of Sample Received: 17 Apr 2015

Testing Period: 17 Apr 2015 - 23 Apr 2015

Test Requested : Selected test(s) as requested by client.

Test Method: Please refer to next page(s).

Test Results: Please refer to next page(s).

Conclusion: Based on the performed tests on submitted sample(s), the results of Lead,

Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBBs), Polybrominated diphenyl ethers (PBDEs) comply with the limits as set by RoHS

Directive 2011/65/EU Annex II; recasting 2002/95/EC.

Signed for and on behalf of SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch

Merry Lv

Approved Signatory



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Date: 30 Apr 2015

Test Results:

Test Part Description:

Specimen No. SGS Sample ID Description

SN1 CAN15-059235.002 Silvery plated metal

Remarks:

(1) 1 mg/kg = 1 ppm = 0.0001%

(2) MDL = Method Detection Limit

(3) ND = Not Detected (< MDL)

(4) "-" = Not Regulated

RoHS Directive 2011/65/EU

Test Method: (1)With reference to IEC 62321-5:2013, determination of Cadmium by ICP-OES.

(2) With reference to IEC 62321-5:2013, determination of Lead by ICP-OES.

(3) With reference to IEC 62321-4:2013, determination of Mercury by ICP-OES.

(4) With reference to IEC 62321:2008, determination of Hexavalent Chromium by spot test /

Colorimetric Method using UV-Vis.

(5) With reference to IEC 62321:2008, determination of PBBs and PBDEs by GC-MS.

Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>002</u>
Cadmium (Cd)	100	mg/kg	2	ND
Lead (Pb)	1,000	mg/kg	2	5
Mercury (Hg)	1,000	mg/kg	2	ND
Hexavalent Chromium (CrVI)	-	-	\Diamond	Negative
Sum of PBBs	1,000	mg/kg	-	ND
Monobromobiphenyl	-	mg/kg	5	ND
Dibromobiphenyl	-	mg/kg	5	ND
Tribromobiphenyl	-	mg/kg	5	ND
Tetrabromobiphenyl	-	mg/kg	5	ND
Pentabromobiphenyl	-	mg/kg	5	ND
Hexabromobiphenyl	-	mg/kg	5	ND
Heptabromobiphenyl	-	mg/kg	5	ND
Octabromobiphenyl	-	mg/kg	5	ND
Nonabromobiphenyl	-	mg/kg	5	ND
Decabromobiphenyl	-	mg/kg	5	ND
Sum of PBDEs	1,000	mg/kg	-	ND
Monobromodiphenyl ether	-	mg/kg	5	ND



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Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>002</u>	
Dibromodiphenyl ether	-	mg/kg	5	ND	
Tribromodiphenyl ether	-	mg/kg	5	ND	
Tetrabromodiphenyl ether	-	mg/kg	5	ND	
Pentabromodiphenyl ether	-	mg/kg	5	ND	
Hexabromodiphenyl ether	-	mg/kg	5	ND	
Heptabromodiphenyl ether	-	mg/kg	5	ND	
Octabromodiphenyl ether	-	mg/kg	5	ND	
Nonabromodiphenyl ether	-	mg/kg	5	ND	
Decabromodiphenyl ether	-	mg/kg	5	ND	

Notes:

- (1) The maximum permissible limit is quoted from the directive 2011/65/EU, Annex II.
- (2) Spot-test:

Negative = Absence of CrVI coating, Positive = Presence of CrVI coating;

(The tested sample should be further verified by boiling-water-extraction method if the spot test result is Negative or cannot be confirmed.)

♦Boiling-water-extraction:

Negative = Absence of CrVI coating

Positive = Presence of CrVI coating; the detected concentration in boiling-water-extraction solution is equal or greater than 0.02 mg/kg with 50 cm2 sample surface area.

Information on storage conditions and production date of the tested sample is unavailable and thus results of Cr(VI) represent status of the sample at the time of testing.

Elementary Analysis

Test Method: With reference to US EPA method 3050B:1996, analysis was performed by ICP-OES.

Test Item(s)	<u>Unit</u>	<u>MDL</u>	<u>002</u>
Beryllium (Be)	mg/kg	5	ND

Polycyclic Aromatic Hydrocarbons (PAHs)

Test Method: With reference to AfPS GS 2014:01 PAK, analysis was performed by GC-MS.

Test Item(s)	CAS NO.	<u>Unit</u>	<u>MDL</u>	<u>002</u>
Naphthalene(NAP)	91-20-3	mg/kg	0.1	ND
Acenaphthylene(ANY)	208-96-8	mg/kg	0.1	ND



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Test Item(s)	CAS NO.	<u>. Unit</u>	<u>MDL</u>	<u>002</u>
Acenaphthene(ANA)	83-32-9	mg/kg	0.1	ND
Fluorene(FLU)	86-73-7	mg/kg	0.1	ND
Phenanthrene(PHE)	85-01-8	mg/kg	0.1	ND
Anthracene(ANT)	120-12-7	mg/kg	0.1	ND
Fluoranthene(FLT)	206-44-0	mg/kg	0.1	ND
Pyrene(PYR)	129-00-0	mg/kg	0.1	ND
Benzo(a)anthracene(BaA)	56-55-3	mg/kg	0.1	ND
Chrysene(CHR)	218-01-9	mg/kg	0.1	ND
Benzo(b)fluoranthene(BbF)	205-99-2	mg/kg	0.1	ND
Benzo(j)fluoranthene(BjF)	205-82-3	mg/kg	0.1	ND
Benzo(k)fluoranthene(BkF)	207-08-9	mg/kg	0.1	ND
Benzo(a)pyrene(BaP)	50-32-8	mg/kg	0.1	ND
Benzo(e)pyrene(BeP)	192-97-2	mg/kg	0.1	ND
Indeno(1,2,3-c,d)pyrene(IPY)	193-39-5	mg/kg	0.1	ND
Dibenzo(a,h)anthracene(DBA)	53-70-3	mg/kg	0.1	ND
Benzo(g,h,i)perylene(BPE)	191-24-2	mg/kg	0.1	ND
Sum of Acenaphthylene. Acenaphthe		mg/kg	-	ND
Phenanthrene, Pyrene, Anthracene,	Fluoranthene			ND
Sum of 18 PAHs	-	mg/kg	-	ND



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AfPS (German commission for Product Safety): GS PAHs requirements

Parameter	Category 1	Category 2		Category	3	
	Material indented to be put in the mouth or toys with intended skin contact (longer than 30 s).	foreseeable contact to skin for longer than 30 s		Materials not falling under category 1 or 2 with foresees contact to skin for less than 3 (short-term skin contact).		
		Toy under 2009/48/EC	Other products under ProdSG	Toy under 2009/48/EC	Other products under ProdSG	
Benzo(a)pyrene mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1	
Benzo(e)pyrene Mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1	
Benzo(a)anthracene mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1	
Benzo(b)fluoranthene mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1	
Benzo(j)fluoranthene mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1	
Benzo(k)fluoranthene mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1	
Chrysene mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1	
Dibenzo(a,h)anthracene mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1	
Benzo(g,h,i)perylene mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1	
Indeno(I,2,3-cd)pyrene mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1	
Acenaphthylene, Acenaphthene, fluorene,phenanthrene, pyrene, anthracene, fluoranthene, mg/kg	< 1 Sum	< 5 Sum	< 10 Sum	< 20 Sum	< 50 Sum	
Naphthalene, mg/kg	< 1	< 2		< 10		
Sum of 18 PAHs	<1	< 5	< 10	< 20	< 50	

Remark:

The German committee on Product Safety (AfPS) adopted a new PAHs document on August 4, 2014, which is taken into account by the GS certification bodies for the certification process of the GS mark now. The transitional arrangements and deadlines contained therein shall determine the procedure for existing certificates and new certificates; also there are exceptions. The previously valid PAK-document (ZEK 01.4-08, English version) will be repealed after 30th of June.2015.

Perfluorooctane Sulfonates (PFOS)



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Test Method: With reference to US EPA 3550C: 2007, analysis was performed by HPLC-MS.

Test Item(s)CAS NO.UnitMDL002Perfluorooctane Sulfonates1763-23-1μg/m²1.0ND

(PFOS) and related Acid, Metal

Salt and Amide

Notes:

For reference: commission regulation (EU) No 757/2010 amending regulation (EC) No 850/2004:

- (1) For the purposes of this entry, Article 4(1) (b) shall apply to concentrations of PFOS equal to or below 10 mg/kg (0,001 % by weight) when it occurs in substances or in preparations.
- (2) For the purposes of this entry, Article 4(1) (b) shall apply to concentrations of PFOS in semi-finished products or articles, or parts thereof, if the concentration of PFOS is lower than 0,1 % by weight calculated with reference to the mass of structurally or micro-structurally distinct parts that contain PFOS or, for textiles or other coated materials, if the amount of PFOS is lower than $1\mu g$ /m2 of the coated material.



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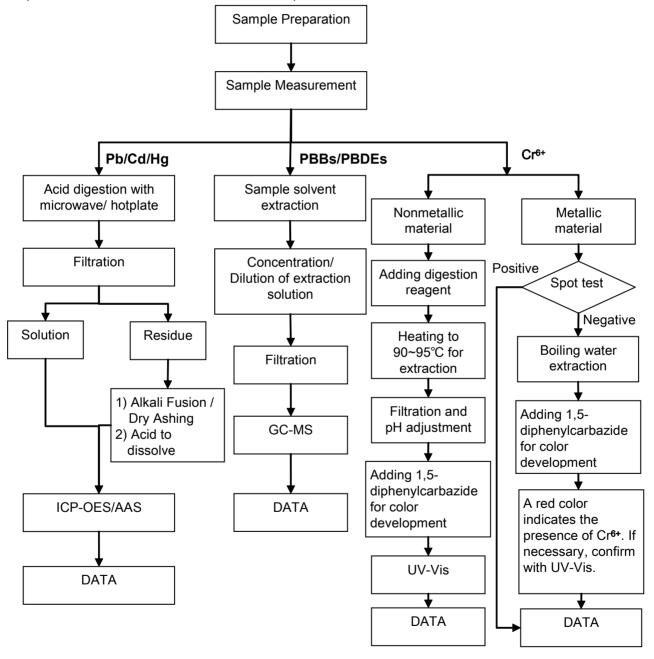
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ATTACHMENTS

RoHS Testing Flow Chart

- 1) Name of the person who made testing: Bruce Xiao / Sunny Hu
- 2) Name of the person in charge of testing: Bella Wang / Cutey Yu
- 3) These samples were dissolved totally by pre-conditioning method according to below flow chart (Cr⁶⁺ and PBBs/PBDEs test method excluded).





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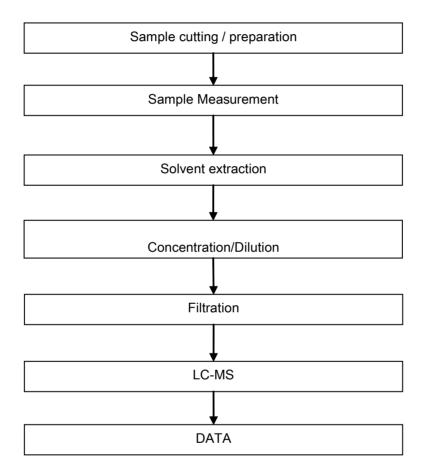
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PFOA / PFOS Testing Flow Chart

- 1) Name of the person who made testing: Zhihong Wang
- 2) Name of the person in charge of testing: Cutey Yu





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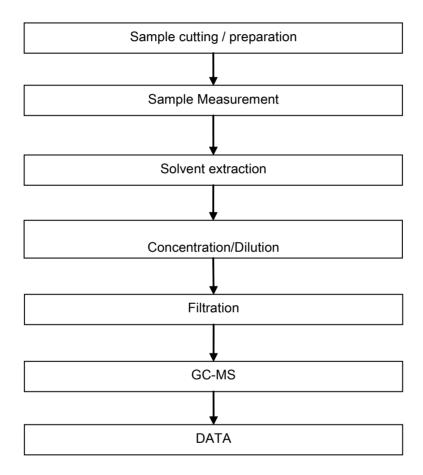
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PAHs Testing Flow Chart

- 1) Name of the person who made testing: Sunny Hu
- 2) Name of the person in charge of testing: Cutey Yu





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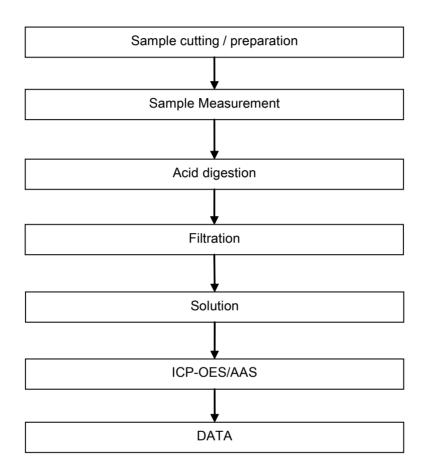
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Elementary Testing Flow Chart

- 1) Name of the person who made testing: Bruce Xiao
- 2) Name of the person in charge of testing: Bella Wang





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Sample photo:



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*** End of Report ***



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號碼(No.): CE/2014/B1499 日期(Date): 2014/11/17 頁數(Page): 1 of 6

Test Report

德紘實業有限公司

AMPRO TECHNOLOGIES INC.

台北市羅斯福路一段78號4樓

4F, #78, ROOSEVELT ROAD, SECTION 1, TAIPEI, TAIWAN

以下測試樣品係由申請廠商所提供及確認 (The following sample(s) was/were submitted and identified by/on behalf of the applicant as):

送樣廠商(Sample Submitted By)

: 德紘實業有限公司 (AMPRO TECHNOLOGIES INC.)

樣品名稱(Sample Description)

: HIGH DENSITY POLYETHYLENE RESINS

樣品型號(Style/Item No.)

: LR590005

生產或供應廠商(Manufacturer/Vendor)

: EQUISTAR CHEMICALS, LP.

原產國(Country of Origin)

: U.S.A.

Lot No.

: CL240329B1

收件日期(Sample Receiving Date)

: 2014/11/11

測試期間(Testing Period)

: 2014/11/11 TO 2014/11/17

依據客户要求,參考RoHS 2011/65/EU Annex II 指令進行鎬,鉛,汞,六價鉻,多溴聯苯,

測試需求(Test Requested):

多溴聯苯醚測試. (As specified by client, with reference to RoHS Directive 2011/65/EU Annex II to determine Cadmium, Lead, Mercury, Cr(VI), PBBs, PBDEs

contents in the submitted sample.)

測試方法(Test Method)

請見下一頁 (Please refer to next pages).

測試結果(Test Results)

請見下一頁 (Please refer to next pages).

結論(Conclusion)

根據客户所提供的樣品,其鎬,鉛,汞,六價鉻,多溴聯苯,多溴聯苯醚的測試結果符合 RoHS指令2002/95/EC的更新指令2011/65/EU之要求 (Based on the performed tests on submitted samples, the test result(s) of Cadmium, Lead, Mercury, Cr(VI), PBBs,

PBDEs comply with the limits as set by RoHS Directive 2011/65/EU Annex II;

recasting 2002/95/EC.)

Troy Chang Manager Signed for and on behalf SGS TAIWAN LTD. Chemical Laboratory - Taipei

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Test Report

德紘實業有限公司 AMPRO TECHNOLOGIES INC. 台北市羅斯福路一段78號4樓 4F, #78, ROOSEVELT ROAD, SECTION 1, TAIPEI, TAIWAN

測試結果(Test Results)

測試部位(PART NAME)No.1 : 白色塑膠粒 (WHITE PLASTIC PELLETS)

測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限値 (MDL)	結果 (Result) No.1	法規 限値 (Limit)
鎘 / Cadmium (Cd)	mg/kg	參考IEC 62321-5: 2013方法, 以感應耦合 電漿原子發射光譜儀檢測. / With reference to IEC 62321-5: 2013 and performed by ICP-AES.	2	n.d.	100
鋁 / Lead (Pb)	mg/kg	參考IEC 62321-5: 2013方法, 以感應耦合 電漿原子發射光譜儀檢測. / With reference to IEC 62321-5: 2013 and performed by ICP-AES.	2	n.d.	1000
汞 / Mercury (Hg)	mg/kg	參考IEC 62321-4: 2013方法, 以感應耦合 電漿原子發射光譜儀檢測. / With reference to IEC 62321-4: 2013 and performed by ICP-AES.	2	n.d.	1000
六價络 / Hexavalent Chromium Cr(VI)	mg/kg	参考IEC 62321: 2008方法,以UV-VIS檢測. / With reference to IEC 62321: 2008 and performed by UV-VIS.	2	n.d.	1000
多溴聯苯總和 / Sum of PBBs	mg/kg		-	n.d.	1000
一溴聯苯 / Monobromobiphenyl	mg/kg		5	n.d.	-
二溴聯苯 / Dibromobiphenyl	mg/kg		5	n.d.	-
三溴聯苯 / Tribromobiphenyl	mg/kg		5	n.d.	-
四溴聯苯 / Tetrabromobiphenyl	mg/kg	 參考IEC 62321: 2008方法,以氣相層析/質	5	n.d.	=
五溴聯苯 / Pentabromobiphenyl	mg/kg	譜儀檢測. / With reference to IEC	5	n.d.	-
六溴聯苯 / Hexabromobiphenyl	mg/kg	62321: 2008 and performed by GC/MS.	5	n.d.	-
七溴聯苯 / Heptabromobiphenyl	mg/kg		5	n.d.	-
八溴聯苯 / Octabromobiphenyl	mg/kg		5	n.d.	-
九溴聯苯 / Nonabromobiphenyl	mg/kg		5	n.d.	-
十溴聯苯 / Decabromobiphenyl	mg/kg		5	n.d.	-

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Test Report

德紘實業有限公司 AMPRO TECHNOLOGIES INC. 台北市羅斯福路一段78號4樓 4F, #78, ROOSEVELT ROAD, SECTION 1, TAIPEI, TAIWAN

測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限値 (MDL)	結果 (Result) No.1	法規 限値 (Limit)
多溴聯苯醚總和 / Sum of PBDEs	mg/kg		-	n.d.	1000
一溴聯苯醚 / Monobromodiphenyl ether	mg/kg		5	n.d.	-
二溴聯苯醚 / Dibromodiphenyl ether	mg/kg		5	n.d.	-
三溴聯苯醚 / Tribromodiphenyl ether	mg/kg	 	5	n.d.	-
四溴聯苯醚 / Tetrabromodiphenyl ether	mg/kg		5	n.d.	-
五溴聯苯醚 / Pentabromodiphenyl ether	mg/kg	譜儀檢測. / With reference to IEC	5	n.d.	-
六溴聯苯醚 / Hexabromodiphenyl ether	mg/kg	62321: 2008 and performed by GC/MS.	5	n.d.	-
七溴聯苯醚 / Heptabromodiphenyl ether	mg/kg		5	n.d.	-
八溴聯苯醚 / Octabromodiphenyl ether	mg/kg		5	n.d.	-
九溴聯苯醚 / Nonabromodiphenyl ether	mg/kg		5	n.d.	-
十溴聯苯醚 / Decabromodiphenyl ether	mg/kg		5	n.d.	ı

備註(Note):

- 1. mg/kg = ppm ; 0.1wt% = 1000ppm
- 2. n.d. = Not Detected (未檢出)
- 3. MDL = Method Detection Limit (方法偵測極限值)
- 4. "-" = Not Regulated (無規格值)

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Test Report

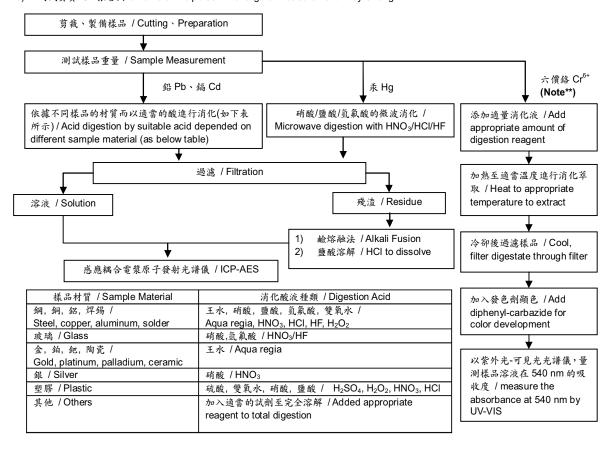
德紘實業有限公司

AMPRO TECHNOLOGIES INC.

台北市羅斯福路一段78號4樓

4F, #78, ROOSEVELT ROAD, SECTION 1, TAIPEI, TAIWAN

- 1) 根據以下的流程圖之條件,樣品已完全溶解。(六價鉻測試方法除外) / These samples were dissolved totally by pre-conditioning method according to below flow chart. $(Cr^{6+}$ test method excluded)
- 測試人員:楊登偉 / Name of the person who made measurement: Climbgreat Yang
- 測試負責人:張啓興 / Name of the person in charge of measurement: Troy Chang



Note**:(1) 針對非金屬材料加入鹼性消化液,加熱至 90~95℃萃取. / For non-metallic material, add alkaline digestion reagent and heat to 90~95°C.

(2) 針對金屬材料加入純水,加熱至沸騰萃取. / For metallic material, add pure water and heat to boiling.

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Test Report

德紘實業有限公司

AMPRO TECHNOLOGIES INC.

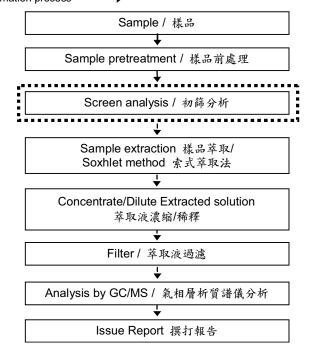
台北市羅斯福路一段78號4樓

4F, #78, ROOSEVELT ROAD, SECTION 1, TAIPEI, TAIWAN

多溴聯苯/多溴聯苯醚分析流程圖 / PBB/PBDE analytical FLOW CHART

- 測試人員: 翁賜彬 / Name of the person who made measurement: Roman Wong
- 測試負責人:張啓興 / Name of the person in charge of measurement: Troy Chang

確認程序 / Confirmation process - · - · ▶



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Test Report

德紘實業有限公司 AMPRO TECHNOLOGIES INC. 台北市羅斯福路一段78號4樓 4F, #78, ROOSEVELT ROAD, SECTION 1, TAIPEI, TAIWAN

* 照片中如有箭頭標示,則表示為實際檢測之樣品/部位. *
(The tested sample / part is marked by an arrow if it's shown on the photo.)

CE/2014/B1499



** 報告結尾 (End of Report) **

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Test Report No. CANEC1406722801 Date: 13 May 2014 Page 1 of 10

SUNVIC TECHNOLOGY CO.LTD

XITOU ADMINISTRATION DISTRICT HOUJIE TOWN, DONGGUAN CITY, GUANGDONG PROVINCE

The following sample(s) was/were submitted and identified on behalf of the clients as: Blue Al/Pet

SGS Job No. : CP14-022625 - SZ

Lot No. : 25140415083

Date of Sample Received : 07 May 2014

Testing Period: 07 May 2014 - 13 May 2014

Test Requested : Selected test(s) as requested by client.

Test Method: Please refer to next page(s).

Test Results: Please refer to next page(s).

Conclusion: Based on the performed tests on submitted samples, the results of Lead,

Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBB), Polybrominated diphenyl ethers (PBDE) comply with the limits as set by RoHS

Directive 2011/65/EU Annex II; recasting 2002/95/EC.

Signed for and on behalf of SGS-CSTC Ltd.

Daisy Dai

Approved Signatory



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[198 Kezhu Raad, Scientech Park Guangzhou Economic & Technology Development District, Guangzhou, China 510663 t (86-20) 82155555 f (86-20) 82075113 www.sgsgroup.com.cn

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Test Report No. CANEC1406722801 Date: 13 May 2014 Page 2 of 10

Test Results:

Test Part Description:

Specimen No. SGS Sample ID Description
SN1 CAN14-067228.001 Blue/silvery sheet

Remarks:

(1) 1 mg/kg = 1 ppm = 0.0001%

(2) MDL = Method Detection Limit

(3) ND = Not Detected (< MDL)

(4) "-" = Not Regulated

RoHS Directive 2011/65/EU

Test Method: (1)With reference to IEC 62321-5:2013, determination of Cadmium by ICP-OES.

(2) With reference to IEC 62321-5:2013, determination of Lead by ICP-OES. (3) With reference to IEC 62321-4:2013, determination of Mercury by ICP-OES.

(4) With reference to IEC 62321:2008, determination of Hexavalent Chromium by Colorimetric

Method using UV-Vis.

(5) With reference to IEC 62321:2008, determination of PBBs and PBDEs by GC-MS.

Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>
Cadmium (Cd)	100	mg/kg	2	ND
Lead (Pb)	1,000	mg/kg	2	ND
Mercury (Hg)	1,000	mg/kg	2	ND
Hexavalent Chromium (CrVI)	1,000	mg/kg	2	ND
Sum of PBBs	1,000	mg/kg	-	ND
Monobromobiphenyl	-	mg/kg	5	ND
Dibromobiphenyl	-	mg/kg	5	ND
Tribromobiphenyl	-	mg/kg	5	ND
Tetrabromobiphenyl	-	mg/kg	5	ND
Pentabromobiphenyl	-	mg/kg	5	ND
Hexabromobiphenyl	-	mg/kg	5	ND
Heptabromobiphenyl	-	mg/kg	5	ND
Octabromobiphenyl	-	mg/kg	5	ND
Nonabromobiphenyl	-	mg/kg	5	ND
Decabromobiphenyl	-	mg/kg	5	ND
Sum of PBDEs	1,000	mg/kg	-	ND
Monobromodiphenyl ether	-	mg/kg	5	ND

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or email: CN.Doccheck@sgs.com

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Test Report	No. CANEC14067228	CANEC1406722801 D		3 May 2014	Page 3 of 10
Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>	
Dibromodiphenyl ether	-	mg/kg	5	ND	
Tribromodiphenyl ether	-	mg/kg	5	ND	
Tetrabromodiphenyl ether	-	mg/kg	5	ND	
Pentabromodiphenyl ether	-	mg/kg	5	ND	
Hexabromodiphenyl ether	-	mg/kg	5	ND	
Heptabromodiphenyl ether	-	mg/kg	5	ND	
Octabromodiphenyl ether	-	mg/kg	5	ND	
Nonabromodiphenyl ether	-	mg/kg	5	ND	
Decabromodiphenyl ether	-	mg/kg	5	ND	

Notes:

(1) The maximum permissible limit is quoted from the directive 2011/65/EU, Annex II.

Halogen

Test Method: With reference to EN 14582: 2007, analysis was performed by Ion Chromatograph (IC).

Test Item(s)	<u>Unit</u>	<u>MDL</u>	<u>001</u>
Fluorine (F)	mg/kg	50	ND
Chlorine (CI)	mg/kg	50	ND
Bromine (Br)	mg/kg	50	ND
lodine (I)	mg/kg	50	ND

Hexabromocyclododecane (HBCDD)

Test Method: Determination of HBCDD by GC-MS based on IEC 62321:2008.

Test Item(s)	<u>Unit</u>	<u>MDL</u>	<u>001</u>
Hexabromocyclododecane (HBCDD)	mg/kg	10	ND

Notes:

(1) Reference Information: Directive 2011/65/EU recasting RoHS directive 2002/95/EC: Hexabromocyclododecane (HBCDD) is considered as a priority for risk evaluation and substance restriction.

PFOS (Perfluorooctane Sulfonates)

Test Method: With reference to US EPA 3550C: 2007, analysis was performed by HPLC-MS.



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Test Report No. CANEC1406722801 Date: 13 May 2014 Page 4 of 10

Test Item(s)UnitMDL001Perfluorooctane Sulfonates (PFOS) and relatedmg/kg10ND

Acid, Metal Salt and Amide

Notes:

For reference: commission regulation (EU) No 757/2010 amending regulation (EC) No 850/2004:

- (1) For the purposes of this entry, Article 4(1) (b) shall apply to concentrations of PFOS equal to or below 10 mg/kg (0,001 % by weight) when it occurs in substances or in preparations.
- (2) For the purposes of this entry, Article 4(1) (b) shall apply to concentrations of PFOS in semi-finished products or articles, or parts thereof, if the concentration of PFOS is lower than 0,1 % by weight calculated with reference to the mass of structurally or micro-structurally distinct parts that contain PFOS or, for textiles or other coated materials, if the amount of PFOS is lower than $1\mu g$ /m2 of the coated material.

Phthalate

Test Method: Determination of phthalates by GC-MS based on EN 14372:2004.

Test Item(s)	CAS NO.	<u>Unit</u>	<u>MDL</u>	<u>001</u>
Dibutyl Phthalate (DBP)	84-74-2	%(w/w)	0.003	ND
Benzylbutyl Phthalate (BBP)	85-68-7	%(w/w)	0.003	ND
Bis-(2-ethylhexyl) Phthalate	117-81-7	%(w/w)	0.003	ND
(DEHP)				
Diisobutyl Phthalate (DIBP)	84-69-5	%(w/w)	0.003	ND
• ,		,		

Notes:

(1) Reference Information: Directive 2011/65/EU recasting RoHS directive 2002/95/EC: Bis (2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP) and Dibutyl phthalate (DBP) are considered as a priority for risk evaluation and substance restriction.



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No. CANEC1406722801

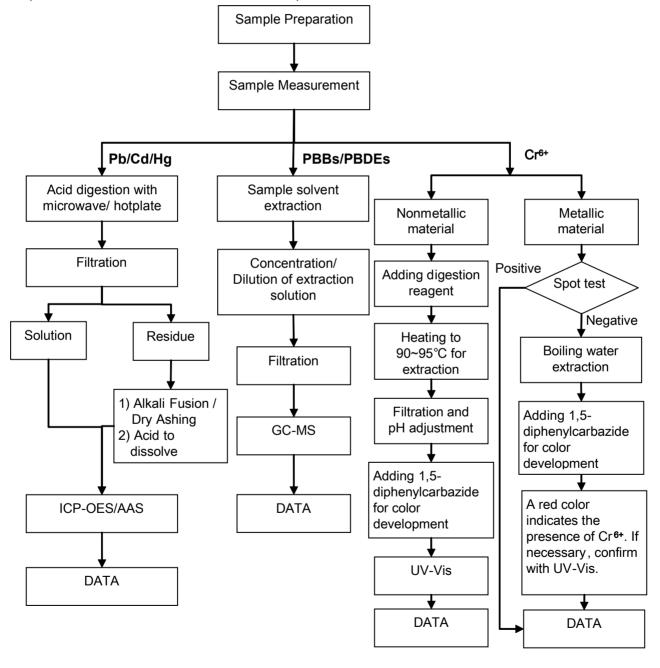
Page 5 of 10

Date: 13 May 2014

ATTACHMENTS

RoHS Testing Flow Chart

- 1) Name of the person who made testing: Michael Tso / Cutey Yu
- 2) Name of the person in charge of testing: Adams Yu / Yolanda Wei
- 3) These samples were dissolved totally by pre -conditioning method according to below flow chart (Cr⁶⁺ and PBBs/PBDEs test method excluded).





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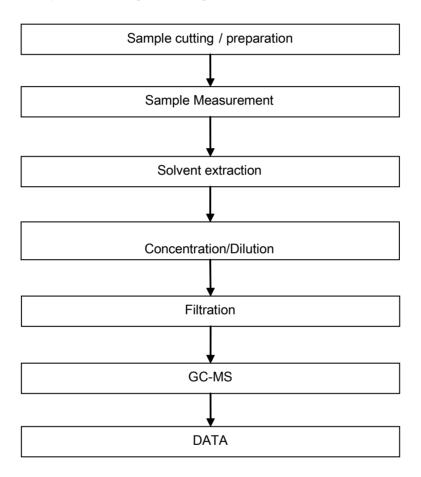


Test Report No. CANEC1406722801 Date: 13 May 2014 Page 6 of 10

ATTACHMENTS

HBCDD Testing Flow Chart

- 1) Name of the person who made testing: Cutey Yu
- 2) Name of the person in charge of testing: Yolanda Wei



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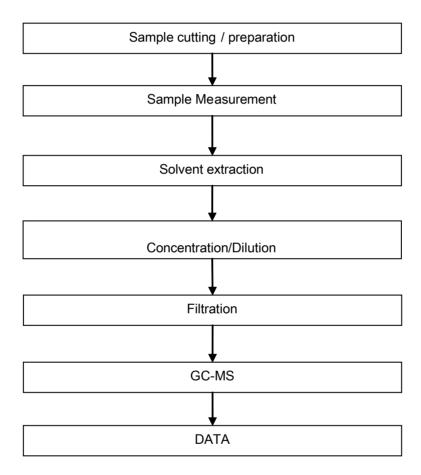


Test Report No. CANEC1406722801 Date: 13 May 2014 Page 7 of 10

ATTACHMENTS

Phthalates Testing Flow Chart

- 1) Name of the person who made testing: Liu Qiong
- 2) Name of the person in charge of testing: Yolanda Wei





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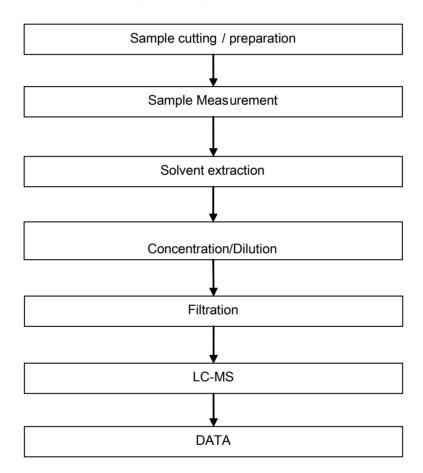
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Date: 13 May 2014

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PFOA / PFOS Testing Flow Chart

- 1) Name of the person who made testing: Tina Zhao
- 2) Name of the person in charge of testing: Yolanda Wei



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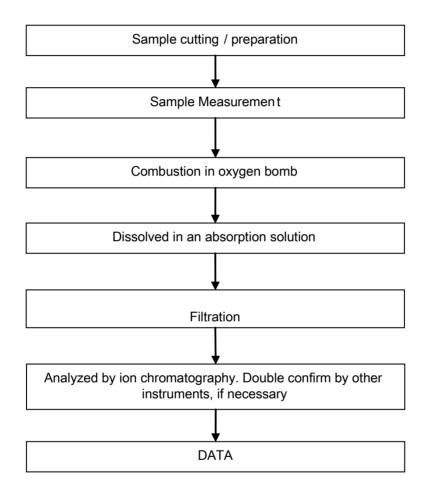
Test Report No. CANEC1406722801 Date: 13 May 2014 Page 9 of 10

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Halogen Testing Flow Chart

1) Name of the person who made testing: Bella Wang

2) Name of the person in charge of testing: Adams Yu





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Date: 13 May 2014

Sample photo:



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FLAT RIBBON WIRE ZHAA9-0013 Part No.:

Cross Section

Marking Insulation Conductor

Marking

NONE

Description	
Rated Voltage (V)	30
Rated Temperature (°C)	105

Construction							
4Cores	Stranded Tinned Copper						
AWG	30						
Construction	7/0.10						
Stranded Dia. (mm)	0.3						
Insulation	PVC						
Nom. Thickness (mm)	0.18						
Min. Thickness (mm)	0.13						
Insulation Dia. (±0.05mmx±0.15mm)	0.70x3.10						
Weight (kg/km)							

Color

color of insulation:

According to the customers' requirement

Part No. : ZHAA9-0013

Customer's name: 珠海展興機械

Length/Reel: 610m/R

Ref. spec No. : GD-9245

Revision History

Rev:

Performance

Electrical Characteristics:

Dielectric Strength (kV/min) Max. DC Resistance at 20°C (Ω/km)

0.5 381



A BELDEN COMPANY

LTK WIRING CO. LTD.

7/F Harbour View 2, 16 Science Park East Avenue Hong Kong Science Park, Shatin, Hong Kong Tel: (852) 2382 1133 Email: sales@ltkcable.com Fax: (852) 2480 6327 URL: http://www.ltkcable.com

LTK Electric Wire (Huizhou) Ltd.LTK Industries (Suzhou) Ltd.

Dalian LTK Electric Wire Ltd.LTK Cable (Chongqing) Ltd. Prepared by: HONGNLI 2009.10.07 Table No.:TFA046

Approved by: YANGXH 2009.10.07 Page 1 of 1



AVLV2.E148000 **Appliance Wiring Material - Component**

Page Bottom

Appliance Wiring Material - Component

See General Information for Appliance Wiring Material - Component

LTK ELECTRIC WIRE (HUIZHOU) LTD

E148000

DESAY 3RD INDUSTRIAL DISTRICT CHEN JIANG TOWN, ZHONG KAI RD HUIZHOU, GUANGDONG 516229 CHINA

			Table of	Recognized S	Styles				
Single-conductor, thermoplastic insulation.									
<u>1006</u>	1497	<u>1672</u>	<u>1839</u>	10064	10309	10795	10953		
<u>1007</u>	1499	<u>1674</u>	<u>1848</u>	10067	10310	10796	10958		
<u>1015</u>	<u>1500</u>	<u>1680</u>	<u>1849</u>	10072	<u>10311</u>	10797	<u>10981</u>		
<u>1019</u>	<u>1503</u>	<u>1681</u>	<u>1862</u>	<u>10076</u>	<u>10312</u>	10798	<u>10982</u>		
<u>1028</u>	<u>1504</u>	<u>1683</u>	<u>1863</u>	<u>10086</u>	10313	10799	10983		
<u>1032</u>	<u>1505</u>	<u>1685</u>	<u>1864</u>	10090	<u>10314</u>	10800	10984		
<u>1056</u>	<u>1508</u>	1691	<u> 1865</u>	10097	10316	10801	10985		
<u>1061</u>	<u>1516</u>	1692	<u>1866</u>	10098	10325	10802	10986		
<u>1067</u>	<u>1517</u>	<u>1696</u>	<u>1870</u>	10099	10328	10803	10987		
<u>1071</u>	<u>1523</u>	1697	<u>1871</u>	10100	10331	10804	10992		
<u>1095</u>	<u>1533</u>	1703	<u>1874</u>	10101	10333	10805	10993		
<u>1097</u>	<u>1534</u>	<u>1706</u>	<u>1878</u>	10109	10337	10838	11004		
<u>1102</u>	<u>1536</u>	1719	<u>1886</u>	10113	10368	10839	11005		
1107	<u>1547</u>	1720	<u>1895</u>	10125	10369	10840	11006		
<u>1108</u>	<u>1551</u>	1723	<u>1900</u>	10126	10388	10841	11007		
<u>1109</u>	<u>1552</u>	<u>1728</u>	<u>1901</u>	<u>10131</u>	10412	10842	11025		
<u>1110</u>	<u>1553</u>	<u>1730</u>	<u>1905</u>	<u>10137</u>	<u>10426</u>	10843	<u>11026</u>		
<u>1112</u>	<u>1554</u>	<u>1731</u>	<u>1921</u>	10138	10444	10844	<u>11027</u>		
<u>1113</u>	<u>1568</u>	<u>1732</u>	<u>1923</u>	10150	10446	10845	11028		
<u>1120</u>	<u>1569</u>	<u>1736</u>	<u>1926</u>	10168	10448	<u>10846</u>	11029		
<u>1150</u>	<u>1571</u>	<u>1741</u>	<u>1942</u>	10183	10450	10847	11030		
<u>1176</u>	<u>1572</u>	<u>1747</u>	<u>1949</u>	10192	10453	10848	11035		
<u>1185</u>	<u>1577</u>	1759	<u>1959</u>	10198	10454	10849	11041		
<u>1195</u>	<u>1581</u>	<u>1761</u>	<u>1966</u>	10204	<u>10456</u>	10850	11042		
<u>1208</u>	<u>1583</u>	1762	<u>1967</u>	10210	10461	10851	11043		
<u>1230</u>	<u>1585</u>	1763	1972	10211	10464	10852	11044		
1232	<u>1586</u>	<u>1766</u>	<u>1973</u>	10212	<u>10468</u>	10853	11045		

<u>1275</u>	<u>1589</u>	<u>1769</u>	<u>1978</u>	<u>10221</u>	10482	<u>10854</u>	<u>11046</u>
1283	<u>1596</u>	<u>1770</u>	<u>1984</u>	<u>10226</u>	10483	10855	11047
1284	<u>1597</u>	<u>1774</u>	<u>1987</u>	<u>10231</u>	10492	10856	11048
1316	<u>1598</u>	<u>1777</u>	1988	10234	10493	10857	11059
1317	1605	<u>1778</u>	1989	10235	10495	10858	11060
1330	<u>1610</u>	<u>1782</u>	1990	10236	10496	10918	11080
1331	<u>1617</u>	<u>1783</u>	1992	10237	10498	10936	11081
1332	<u>1618</u>	<u>1787</u>	1999	10239	10499	10937	11082
1333	1624	<u>1789</u>	10002	10248	10501	10938	11083
1354	<u>1631</u>	<u>1792</u>	10005	10267	10504	10939	11084
1365	<u>1635</u>	<u>1800</u>	10012	10272	10515	10940	11085
1375	1637	<u>1801</u>	10014	10273	10525	10941	11130
1429	1638	<u>1804</u>	10023	10275	10533	10942	11211
1430	1640	<u>1805</u>	10027	10277	10545	10943	11212
1431	1641	1809	10038	10278	10551	10944	11213
1452	1642	<u>1818</u>	10040	10279	10553	10945	11214
1453	<u>1643</u>	<u>1825</u>	10041	10283	10554	10946	11215
<u>1472</u>	<u>1645</u>	<u>1827</u>	10043	<u>10286</u>	10587	10947	11216
1478	<u>1646</u>	<u>1828</u>	10050	10290	10602	10948	11217
1486	<u>1647</u>	<u>1829</u>	10053	10298	10603	10949	11254
1489	1649	<u>1830</u>	10057	10302	10668	10950	11255
1490	<u>1651</u>	<u>1833</u>	10059	<u>10306</u>	10669	10951	
1494	<u>1670</u>	<u>1835</u>	10063	<u>10308</u>	<u>10794</u>	10952	
Multiple-c	onductor, t	hermoplastic	insulation.				
2092	<u>2552</u>	<u>2956</u>	20280	<u>20851</u>	<u>21126</u>	<u>21324</u>	21469
2093	<u>2554</u>	<u>2957</u>	20292	20854	21130	21325	21472
2094	<u>2562</u>	<u>2960</u>	20317	<u>20855</u>	21137	21326	21473
2095	<u>2569</u>	<u>2969</u>	<u>20350</u>	<u>20866</u>	21139	21327	21474
2096	<u>2570</u>	<u>2975</u>	<u>20351</u>	20868	21140	<u>21328</u>	21475
2097	<u>2574</u>	<u>2990</u>	<u>20352</u>	20911	21141	21329	21476
2101	<u>2576</u>	<u>2992</u>	<u>20353</u>	20912	21142	<u>21330</u>	21492
2102	<u>2584</u>	<u>2996</u>	20379	20921	21143	21338	21503
2103	<u>2586</u>	20002	20382	20936	21145	21398	21504
<u>2151</u>	<u>2587</u>	20007	20407	20939	21149	21399	21505
2180	<u>2589</u>	20008	20410	20940	21153	21400	21506
2192	2590	20009	20411	20948	21154	21401	21507
2305	2598	20010	20446	20954	21161	21402	21508
2343	<u>2611</u>	20011	20460	20957	21165	21403	21509
2344	<u>2612</u>	20021	20468	20970	21179	21404	21510
2366	<u>2614</u>	20022	20475	20989	21198	21405	21511
2405	<u>2651</u>	20034	20517	21016	21223	21406	21512
2428	<u>2661</u>	20058	20519	21025	21253	21407	21515

L	ı		 				
2444	2662	20066	20524	21026	21283	21408	21516
2448	2668	20080	20541	21027	21301	21409	21517
2461	<u>2679</u>	20095	20549	21028	21303	21410	21518
<u>2462</u>	<u>2717</u>	20097	<u>20554</u>	<u>21036</u>	<u>21304</u>	<u>21411</u>	<u>21520</u>
<u>2464</u>	<u>2725</u>	20099	20567	21047	<u>21305</u>	21412	21570
2468	<u>2733</u>	20120	<u>20604</u>	21064	<u>21306</u>	21413	<u>21571</u>
<u>2473</u>	<u>2734</u>	20153	20620	21069	<u>21307</u>	<u>21414</u>	<u>21631</u>
<u>2474</u>	<u>2740</u>	20170	20640	21073	<u>21308</u>	<u>21415</u>	21632
<u>2481</u>	<u>2789</u>	<u>20195</u>	<u>20644</u>	<u>21074</u>	<u>21309</u>	<u>21416</u>	<u>21633</u>
<u>2482</u>	<u>2791</u>	<u>20197</u>	<u>20694</u>	<u>21080</u>	<u>21310</u>	<u>21451</u>	<u>21634</u>
<u>2483</u>	<u>2833</u>	<u>20201</u>	<u>20698</u>	<u>21088</u>	<u>21311</u>	<u>21452</u>	<u>21688</u>
<u>2493</u>	<u>2835</u>	<u>20233</u>	<u>20711</u>	<u>21089</u>	<u>21313</u>	<u>21453</u>	<u>21689</u>
<u>2497</u>	<u>2844</u>	<u>20234</u>	<u>20721</u>	21099	<u>21314</u>	<u>21454</u>	<u>21690</u>
<u>2500</u>	<u>2851</u>	<u>20235</u>	20722	<u>21100</u>	<u>21315</u>	<u>21455</u>	<u>21691</u>
<u>2501</u>	<u>2854</u>	<u>20236</u>	<u>20723</u>	<u>21101</u>	<u>21316</u>	<u>21456</u>	<u>21692</u>
<u>2509</u>	<u>2877</u>	<u>20251</u>	<u>20733</u>	<u>21115</u>	<u>21317</u>	<u>21457</u>	<u>21693</u>
<u>2514</u>	<u>2907</u>	<u>20253</u>	<u>20744</u>	<u>21116</u>	<u>21318</u>	<u>21458</u>	<u>21776</u>
<u>2517</u>	<u>2918</u>	<u>20254</u>	<u>20745</u>	<u>21117</u>	<u>21319</u>	<u>21460</u>	
<u>2522</u>	<u>2919</u>	<u>20276</u>	20749	21118	<u>21320</u>	<u>21461</u>	
<u>2547</u>	<u>2935</u>	<u>20278</u>	<u>20778</u>	<u>21119</u>	<u>21322</u>	<u>21462</u>	
<u>2551</u>	<u>2950</u>	<u>20279</u>	<u>20850</u>	<u>21120</u>	<u>21323</u>	<u>21468</u>	
Single-co	nductor, the	ermoset insul	ation.				
<u>3122</u>	<u>3273</u>	<u>3317</u>	<u>3375</u>	<u>3413</u>	<u>3454</u>	<u>3502</u>	<u>3611</u>
<u>3135</u>	<u>3275</u>	<u>3320</u>	<u>3376</u>	<u>3415</u>	<u>3456</u>	<u>3505</u>	<u>3612</u>
<u>3137</u>	<u>3281</u>	<u>3321</u>	<u>3377</u>	<u>3416</u>	<u>3458</u>	<u>3506</u>	<u>3613</u>
<u>3167</u>	<u>3282</u>	<u>3331</u>	<u>3378</u>	<u>3417</u>	<u>3459</u>	<u>3511</u>	<u>3619</u>
<u>3173</u>	<u>3286</u>	<u>3336</u>	<u>3379</u>	<u>3423</u>	<u>3463</u>	<u>3558</u>	<u>3623</u>
<u>3182</u>	<u>3287</u>	<u>3338</u>	<u>3381</u>	<u>3424</u>	<u>3464</u>	<u>3564</u>	<u>3626</u>
<u>3194</u>	<u>3288</u>	<u>3343</u>	<u>3382</u>	<u>3432</u>	<u>3469</u>	<u>3565</u>	<u>3631</u>
<u>3195</u>	<u>3289</u>	<u>3344</u>	<u>3383</u>	<u>3433</u>	<u>3470</u>	<u>3567</u>	<u>3633</u>
<u>3196</u>	<u>3290</u>	<u>3345</u>	<u>3384</u>	<u>3435</u>	<u>3473</u>	<u>3569</u>	<u>3635</u>
3199	<u>3295</u>	3346	<u>3385</u>	<u>3436</u>	<u>3475</u>	<u>3578</u>	<u>3649</u>
<u>3236</u>	<u>3296</u>	<u>3347</u>	<u>3386</u>	<u>3437</u>	<u>3480</u>	<u>3581</u>	<u>3652</u>
<u>3239</u>	<u>3297</u>	<u>3348</u>	<u>3387</u>	<u>3438</u>	<u>3481</u>	<u>3592</u>	<u>3656</u>
<u>3247</u>	<u>3298</u>	<u>3351</u>	<u>3393</u>	<u>3439</u>	<u>3485</u>	<u>3593</u>	<u>3657</u>
3248	3299	3352	<u>3397</u>	3440	<u>3486</u>	<u>3594</u>	<u>3666</u>
3249	3300	3358	3398	<u>3443</u>	<u>3491</u>	<u>3596</u>	<u>3674</u>
3250	3302	3363	3399	3446	3492	<u>3597</u>	<u>3681</u>
3265	3310	3364	<u>3401</u>	3447	<u>3493</u>	<u>3598</u>	<u>3687</u>
<u>3266</u>	3312	<u>3366</u>	3402	3448	<u>3495</u>	<u>3599</u>	<u>3688</u>
3271	3314	3368	<u>3406</u>	3452	<u>3496</u>	<u>3607</u>	3817

<u>3272</u>	<u>3315</u>	<u>3373</u>	<u>3409</u>	<u>3453</u>	<u>3500</u>	<u>3610</u>	<u>3885</u>	
Multiple-conductor, thermoset insulation.								
4258	4289	4313	4338	4399	4417	4468	4478	
4259	<u>4290</u>	4314	4359	4400	4435	4469	<u>4486</u>	
4260	4311	4319	<u>4384</u>	4401	4436	4470	<u>4579</u>	
4288	4312	4320	4398	4407	<u>4465</u>	<u>4471</u>		
Single and multiple-conductor specialty items.								
<u>5291</u>	<u>5292</u>	<u>5352</u>	<u>5361</u>					

Marking: Company name or tradename "LTK", voltage rating, temperature rating, conductor size, conductor material if other than copper, and use.

Last Updated on 2015-01-09

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Report No. SCL01G025629001 Page 1 of 5

Applicant HUI ZHOU ZHEN XIONG COPPER CONDUCTOR CO.,LTD/ HUIZHOU

HUASHENG ELECTRONIC WIRE&CABLE CO.,LTD

Address NO.5 SECTION, DAXIN INDUSTRIAL PARK, CHENJIANG STREET, ZHONGKAI

HI-TECH INDUSTRIAL DEVELOPMENT ZONE, HUIZHOU CITY, GUANGDONG

PROVINCE

The following sample(s) and sample information was/were submitted and identified by/on the behalf of the client

Sample Name Tinned Copper Wire

Material Cu, Sn

Sample Received Date Aug. 11, 2014

Testing Period Aug. 11, 2014 to Aug. 14, 2014

Test Requested As specified by client, to test Lead (Pb), Cadmium (Cd), Mercury (Hg),

Hexavalent Chromium(Cr(VI)), Polybrominated Biphenyl(PBBs), Polybrominated Diphenyl Ethers(PBDEs) in the submitted sample(s).

Test Method Please refer to the following page(s).

Test Result(s) Please refer to the following page(s).

Conclusion

 Tested Sample
 According to directive
 Result

 Submitted Sample
 2011/65/EU*
 Pass

Pass means that the results shown on the report do not exceed the limits set by RoHS Directive 2011/65/EU.

Tested by Rick Lin

Reviewed by

Date

Aug. 14, 2014

No. R101225182

national (Shenzhen) Co., Ltd. Hongwei Industrial Zone, Bao an 70 District, Shenzhen, Guangdong, China

Danny Liu Technical Manager

^{*2011/65/}EU is a new version of RoHS Directive (2002/95/EC), which focuses on restriction of the use of certain hazardous substances (Lead(Pb), Cadmium(Cd), Mercury(Hg), Hexavalent Chromium(Cr(VI)), Polybrominated Biphenyls(PBBs), Polybrominated Diphenyl Ethers(PBDEs)) in electrical and electronic equipment.





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Test Method

Test Item(s)	Test Method	Measured Equipment(s)
Lead (Pb)	IEC 62321-5:2013 Ed.1.0	ICP-OES
Cadmium (Cd)	IEC 62321-5:2013 Ed.1.0	ICP-OES
Mercury (Hg)	IEC 62321-4:2013 Ed.1.0	ICP-OES
Hexavalent Chromium(Cr(VI))	IEC 62321:2008 Ed.1 Annex B	UV-Vis
Polybrominated Biphenyl(PBBs)	IEC 62321:2008 Ed.1 Annex A	GC-MS
Polybrominated Diphenyl Ethers(PBDEs)	IEC 62321:2008 Ed.1 Annex A	GC-MS

Test Result(s)

Tested Item(s)	Result	MDL	Limit of Directive 2011/65/EU
Lead (Pb)	N.D.	2 mg/kg	1000 mg/kg
Cadmium (Cd)	N.D.	2 mg/kg	100 mg/kg
Mercury (Hg)	N.D.	2 mg/kg	1000 mg/kg
Hexavalent Chromium(Cr(VI))	Negative	/	1000 mg/kg

Tested Item(s)	Result	MDL	Limit of Directive 2011/65/EU
Polybrominated Biphenyl(PBBs)	(S)		6
Monobromobiphenyl	N.D.	5 mg/kg	
Dibromobiphenyl	N.D.	5 mg/kg	
Tribromobiphenyl	N.D.	5 mg/kg	(25)
Tetrabromobiphenyl	N.D.	5 mg/kg	
Pentabromobiphenyl	N.D.	5 mg/kg	- 1000 mg/kg
Hexabromobiphenyl	N.D.	5 mg/kg	
Heptabromobiphenyl	N.D.	5 mg/kg	
Octabromobiphenyl	N.D.	5 mg/kg	
Nonabromobiphenyl	N.D.	5 mg/kg	
Decabromobiphenyl	N.D.	5 mg/kg	(20)















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Report No. SCE010023023001	2 /		1 age 3 01 3		
Tested Item(s)	Result	MDL	Limit of Directive 2011/65/EU		
Polybrominated Diphenyl Ethers(P	PBDEs)		15		
Monobromodiphenyl ether	N.D.	5 mg/kg	(¹)		
Dibromodiphenyl ether	N.D.	5 mg/kg			
Tribromodiphenyl ether	N.D.	5 mg/kg	147		
Tetrabromodiphenyl ether	N.D.	5 mg/kg			
Pentabromodiphenyl ether	N.D.	5 mg/kg	1000 mg/kg		
Hexabromodiphenyl ether	N.D.	5 mg/kg	1000 mg ng		
Heptabromodiphenyl ether	N.D.	5 mg/kg	- 15		
Octabromodiphenyl ether	N.D.	5 mg/kg	(P)		
Nonabromodiphenyl ether	N.D.	5 mg/kg			
Decabromodiphenyl ether	N.D.	5 mg/kg			

Tested Sample/Part Description

Metal wire with silvery plating

Note:

The sample(s) had been dissolved totally tested for Lead, Cadmium, Mercury.

- -MDL = Method Detection Limit
- -N.D. = Not Detected (<MDL)
- -mg/kg = ppm = parts per million
- -Negative = Absence of Cr(VI), the detected Cr(VI) concentration in the boiling water extraction solution is less than 0.02 mg/kg with 50cm^2 sample surface area used.













































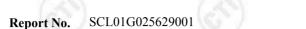








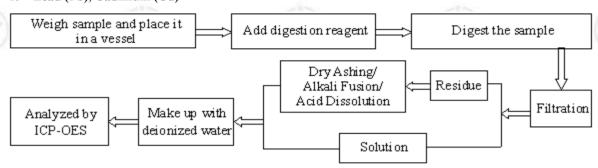




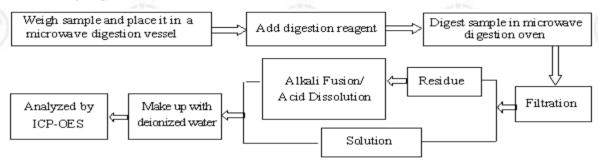
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Test Process

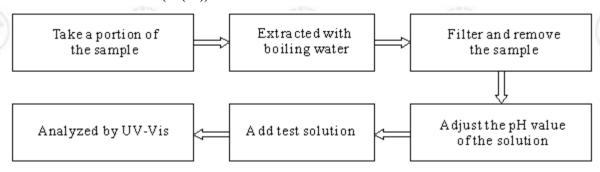
1. Lead (Pb), Cadmium (Cd)



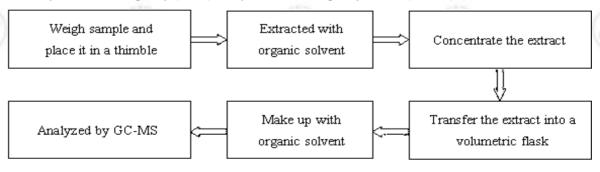
2. Mercury (Hg)



3. Hexavalent Chromium(Cr(VI))



4. Polybrominated Biphenyl(PBBs), Polybrominated Diphenyl Ethers(PBDEs)







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Photo(s) of the sample(s)



*** End of report ***

The test report is effective only with both signature and specialized stamp. The result(s) shown in this report refer only to the sample(s) tested. Without written approval of CTI, this report can't be reproduced except in full.





报告编号 SCL01H032440002E Report No. SCL01H032440002E 第 1 页 共 10 页 Page 1 of 10

申请单位 乐庭电线工业(惠州)有限公司

ApplicantLTK ELECTRIC WIRE (HUIZHOU) LTD地址广东省惠州市陈江德赛第三工业区

Address DESAY 3RD INDUSTRIAL DISTRICT, ZHONGKAI ROAD CHENJIANG TOWN,

HUIZHOU CITY GUANGDONG PROVINCE, P.R.C

以下测试之样品及样品信息由申请者提供并确认

The following sample (s) and sample information was/were submitted and identified by/on the behalf of the client

样品名称 318M Sample Name 318M 样品型号 318M Part No. 318M 样品颜色 灰色 Color Gray 材料名称 色粉 Material Powder 2015.04.30 样品接收日期 Sample Received Date Apr. 30, 2015

样品检测日期 2015.04.30-2015.05.06

Testing Period Apr. 30, 2015 to May. 6, 2015

检测要求 根据客户要求,对所提交样品中的铅(Pb),镉(Cd),汞(Hg),六价铬(C(Ⅵ)),

多溴联苯(PBBs), 多溴二苯醚(PBDEs), 六溴环十二烷(HBODD), 邻苯二甲酸酯

进行测试。

Test Requested As specified by client, to test Lead (Pb), Cadmium (Cd), Mercury (Hg),

Hexavalent Chromium(Cr(VI)), Polybrominated Biphenyl(PBBs), Polybrominated Diphenyl Ethers(PBDEs), Hexabromocyclododecane

(HBCDD), Phthalates in the submitted sample(s).

检测依据/检测结果

Test Method/Test Result(s)

请参见下页。

Please refer to the following page(s).

主 检

Tested by

Tany

D ---! ---- 41--

Reviewed by

日 期

Date

2015.05.06

No. R179751257

Cathy

Danny Liu

l echnical Manager l技术股份有限公司

广东省深圳市宝安区70区鸿威工业园

/ 不自体如印玉女色/0色档威工业四

national (Shenzhen) Co., Ltd. Hongwei Industrial Zone, Bao'an 70 District, Shenzhen, Guangdong, China





SCL01H032440002E 报告编号 Report No. SCL01H032440002E

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结论Conclusion

测试样品 **Tested Sample**

依据指令 According to directive

结果 Result

提交样品 Submitted Sample

2011/65/EU*

合格 Pass

*2011/65/EU为欧盟RoHS指令(2002/95/EC)的重订指令。该指令对电子电器产品中的特定有毒有害物质(铅(Pb), 镉(Cd), 汞(Hg), 六价铬(Cr(VI)), 多溴联苯(PBBs), 多溴二苯醚(PBDEs)) 限制使用。

合格表示检测结果不超过欧盟RoHS指令2011/65/EU要求的限值。

*2011/65/EU is a new version of RoHS Directive (2002/95/EC), which focuses on restriction of the use of certain hazardous substances (Lead(Pb), Cadmium(Cd), Mercury(Hg), Hexavalent Chromium(Cr(VI)), Polybrominated Biphenyls(PBBs),Polybrominated Diphenyl Ethers(PBDEs))in electrical and electronic equipment. Pass means that the results shown on the report do not exceed the limits set by RoHS Directive 2011/65/EU.

















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检测依据 Test Method

测试项目 Test Item(s)	测试方法 Test Method	测试仪器 Measured Equipment(s)
铅(Pb) Lead (Pb)	IEC 62321-5:2013 Ed.1.0	ICP-OES
镉(Cd) Cadmium (Cd)	IEC 62321-5:2013 Ed.1.0	ICP-OES
汞(Hg) Mercury (Hg)	IEC 62321-4:2013 Ed.1.0	ICP-OES
六价铬(O(VI)) Hexavalent Chromium(Cr(VI))	IEC 62321:2008 Ed.1 Annex C	UV-Vis
多溴联苯(PBBs) Polybrominated Biphenyl(PBBs)	IEC 62321:2008 Ed.1 Annex A	GC-MS
多溴二苯醚(PBDEs) Polybrominated Diphenyl Ethers(PBDEs)	IEC 62321:2008 Ed.1 Annex A	GC-MS
六溴环十二烷(HBCDD) Hexabromocyclododecane (HBCDD)	参考US EPA 3540C 1996 & US EPA 8270D 2007 Refer to US EPA 3540C:1996 & US EPA 8270D:2007	GC-MS
邻苯二甲酸酯 Phthalates	参考EN 14372: 2004(E) Refer to EN 14372:2004(E)	GC-MS

检测结果 Test Result(s)

测试项目 Test Item(s)	结果 Result	方法检出限 MDL	2011/65/EU指令限值 Limit of Directive 2011/65/EU
铅(Pb) Lead (Pb)	N.D.	2 mg/kg	1000 mg/kg
镉(Cd) Cadmium (Cd)	N.D.	2 mg/kg	100 mg/kg
汞(Hg) Mercury (Hg)	N.D.	2 mg/kg	1000 mg/kg
六价铬(O(M)) Hexavalent Chromium (Cr(VI))	N.D.	2 mg/kg	1000 mg/kg















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Report 110.			1 480 . 01 1
测试项目 Test Item(s)	结果 Result	方法检出限 MDL	2011/65/EU指令限值 Limit of Directive 2011/65/EU
多溴联苯(PBBs) Polybrominate	d Biphenyl(PBBs)		V
一溴联苯 Monobromobiphenyl	N.D.	5 mg/kg	
二溴联苯 Dibromobiphenyl	N.D.	5 mg/kg	
三溴联苯 Tribromobiphenyl	N.D.	5 mg/kg	
四溴联苯 Tetrabromobiphenyl	N.D.	5 mg/kg	
五溴联苯 Pentabromobiphenyl	N.D.	5 mg/kg	1000 mg/kg
六溴联苯 Hexabromobiphenyl	N.D.	5 mg/kg	1000 mg/kg
七溴联苯 Heptabromobiphenyl	N.D.	5 mg/kg	
八溴联苯 Octabromobiphenyl	N.D.	5 mg/kg	
九溴联苯 Nonabromobiphenyl	N.D.	5 mg/kg	
十溴联苯 Decabromobiphenyl	N.D.	5 mg/kg	(FI)































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report 140. Sezoninez seezz	and the second		1 480 0 01 1
测试项目 Test Item(s)	结果 Result	方法检出限 MDL	2011/65/EU指令限值 Limit of Directive 2011/65/EU
多溴二苯醚(PBDEs) Polybrominate	d Diphenyl Ethers	(PBDEs)	
一溴二苯醚 Monobromodiphenyl ether	N.D.	5 mg/kg	
二溴二苯醚 Dibromodiphenyl ether	N.D.	5 mg/kg	
三溴二苯醚 Tribromodiphenyl ether	N.D.	5 mg/kg	
四溴二苯醚 Tetrabromodiphenyl ether	N.D.	5 mg/kg	
五溴二苯醚 Pentabromodiphenyl ether	N.D.	5 mg/kg	1000 #
六溴二苯醚 Hexabromodiphenyl ether	N.D.	5 mg/kg	1000 mg/kg
七溴二苯醚 Heptabromodiphenyl ether	N.D.	5 mg/kg	
八溴二苯醚 Octabromodiphenyl ether	N.D.	5 mg/kg	
九溴二苯醚 Nonabromodiphenyl ether	N.D.	5 mg/kg	
十溴二苯醚 Decabromodiphenyl ether	N.D.	5 mg/kg	(4)

测试项目 Test Item(s)	结果 Result	方法检出限 MDL
六溴环十二烷(HBCDD) Hexabromocyclododecane (HBCDD)	N.D.	5 mg/kg















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测试项目 Tested Item(s)	结果 Result	方法检出限 MDL
邻苯二甲酸酯 Phthalates		Object is
邻苯二甲酸二正丁酯(DBP) Dibutyl phthalate(DBP) CAS#:84-74-2	N.D.	50 mg/kg
邻苯二甲酸丁基苄酯(BBP) Butylbenzyl phthalate(BBP) CAS#:85-68-7	N.D.	50 mg/kg
邻苯二甲酸二(2-乙基已基)酯(DB-P) Di-2-ethylhexyl phthalate(DEHP) CAS#:117-81-7	N.D.	50 mg/kg

测试样品/ 部位描述 灰色粉末 **Tested Sample/Part Description** Gray powder

备注: 对于检测铅,镉,汞之样品已完全溶解。

-N.D. = 未检出 (小于方法检出限)

-mg/kg= ppm = 百万分之一

Remark: The sample(s) had been dissolved totally tested for Lead, Cadmium, Mercury.

-MDL = Method Detection Limit -N.D. = Not Detected (<MDL) -mg/kg = ppm = parts per million





E-mail:info@cti-cert.com

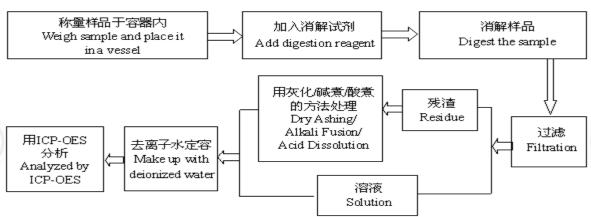


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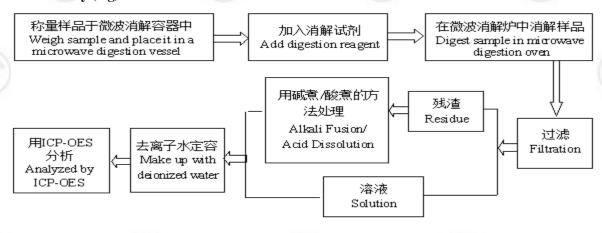
检测流程 Test Process

1. 铅(Pb),镉(Cd) Lead (Pb), Cadmium (Cd)



2. 汞(Hg)

Mercury (Hg)





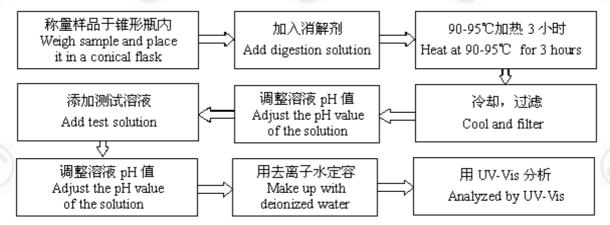


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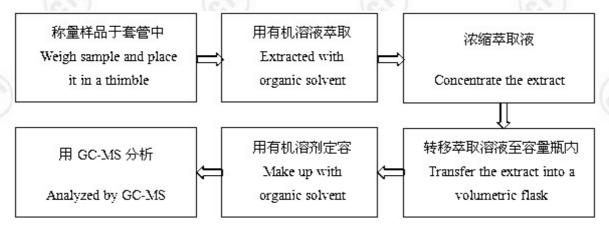
3. 六价铬(O(M))

Hexavalent Chromium(Cr(VI))

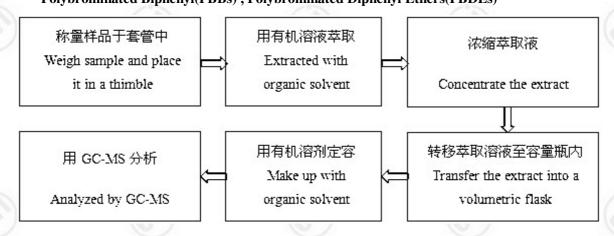


4. 邻苯二甲酸酯

Phthalates



5. 多溴联苯(PBBs), 多溴二苯醚(PBDEs)
Polybrominated Biphenyl(PBBs), Polybrominated Diphenyl Ethers(PBDEs)



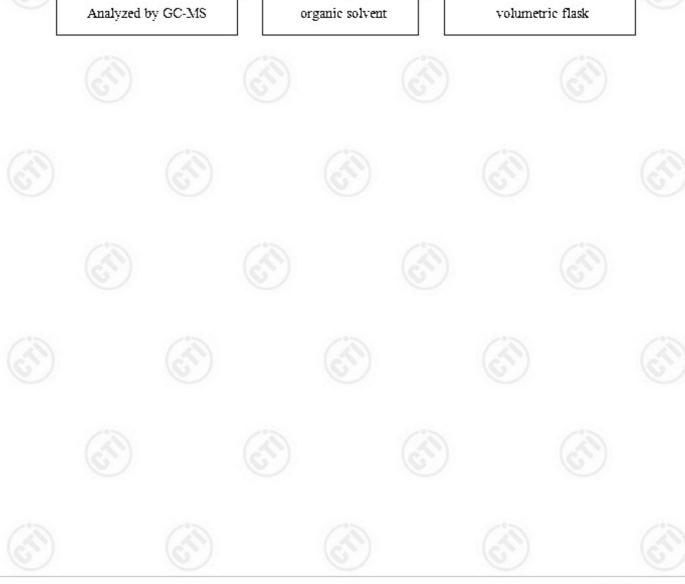




报告编号 SCL01H032440002E Report No. SCL01H032440002E 第 9 页 共 10 页 Page 9 of 10

6. 六溴环十二烷(HBCDD) Hexabromocyclododecane (HBCDD)

称量样品于套管中 用有机溶液萃取 浓缩萃取液 Weigh sample and place Extracted with organic solvent it in a thimble Concentrate the extract 用有机溶剂定容 转移萃取溶液至容量瓶内 用 GC-MS 分析 Make up with Transfer the extract into a volumetric flask Analyzed by GC-MS organic solvent





报告编号 SCL01H032440002E Report No. SCL01H032440002E 第 10 页 共 10 页 Page 10 of 10

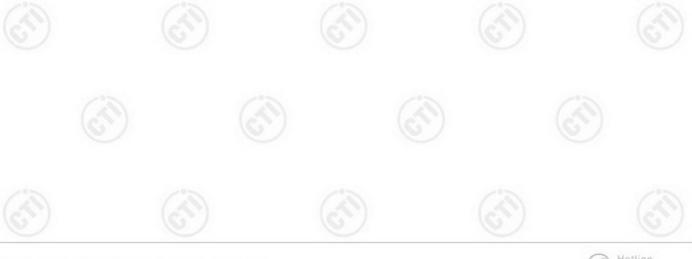
样品图片 Photo(s) of the sample(s)

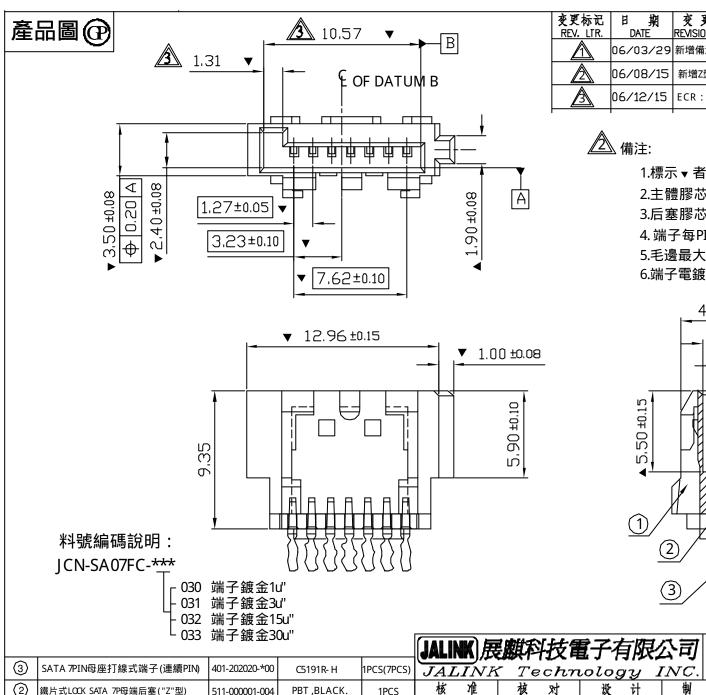


报告结束 *** End of report ***

检测报告无批准人签字及"报告专用章"无效,本报告检测结果仅对受测样品负责。未经**CTI** 书面同意,不得部分复制本报告。

The test report is effective only with both signature and specialized stamp. The result(s) shown in this report refer only to the sample(s) tested. Without written approval of CTI, this report can't be reproduced except in full.





	变更标记	日 期	变更依據	签名	核准	精度	公	.差	TOLER	ANCE
ŀ	REV, LTR.		REVISION ORIGINOR	SIGN	APPROVED	CLASS	Α	В	С	D
		06/03/29	新增備注注意事項	寧夢秋		B以下	0.83	0.05	0.10	0.28
	<u> </u>	06/08/15	新增Z型后塞機種	鄧玉芳		B~25	0.05	<u>6</u>	0.20	0.30
ł						25∾B0	O.DB	D.1D>	(0.30	0.40
	<u> [3]</u>	06/12/15	ECR: R061128102	鄧玉芳		BO~25Ø	0.10	0.20	0.46	0.50
ı		1				250 以上	020	0.30	0.50). 2
							公差		±0.10)
	<u>//2</u> \	未注孔徑	公差	$/ \setminus$	><	//				
		4 1# -	未注角度	公差		±1*	,			

1.標示▼者為重點檢測尺寸.

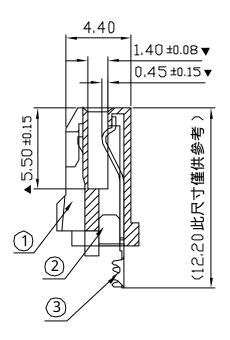
2.主體膠芯材質:PBT 30%G/F,BLACK.

3.后塞膠芯材質:PBT 30%G/F,BLACK.

4. 端子每PIN拔出力: 0.8kgf 以上.

5.毛邊最大不可超過0.05mm

6.端子電鍍:打鎳底,測點鍍金3U"或15U".



|比例| 1/1 |単位| 臺 米 | 客

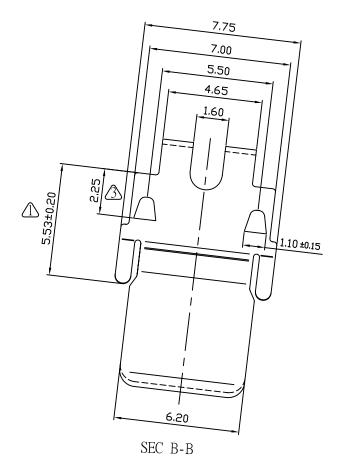
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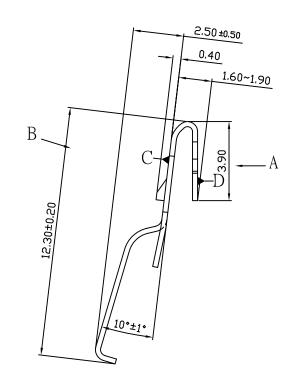
					[JALINK]/戌	照外纹	计分形	经中门人。哈	SCALE 4/1	<u>UNIT </u>	CLIENT	
3	SATA 7PIN母座打線式端子(連續PIN)	401-202020-*00	C5191R- H		JALINK		ology	T3707	版次 No.REV. A3		产品编号 MODEL NO.	
2	鐵片式LOCK SATA 7P母端后塞("Z"型)	511-000001-004	PBT ,BLACK.	1PCS	核 准 APPROVED	核 对 CHECKED	投 计 DESIGNED	制 图 DRAWN	材 MAT.		产品名称 PRODUCT NAME	能片式LOCK SATA 7P 母帽子成品 1(Z型后室)
1	鐵片式LOCK SATA 7P母端膠芯	511-000008-001	PBT ,BLACK.	1PCS				寧夢秋	材料厚度 MAT. THICK		料 号 PRODUCT NO.	JCN-SA07FC-***
ITEM	PART NAME	P.N	DESCRIPTION	Q`TY				06/03/29	表面处理 PRCS.		模具編号 MOULD NO.	

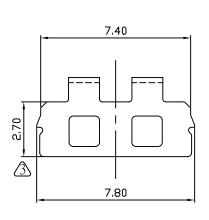
產品圖	(GP)
-----	------

变更标记 REV. LTR.	日期 DATE	变更依據 REVISION ORIGINOR	签 名 SIGN	核 准 APPROVED
2	2005/6/16	依2變更	寧夢秋	
3	2005/8/11	依實物變更	寧夢秋	

	精 度	公	.差	TOLER	ANCE
1	CLASS	Α	В	C	D
1				\setminus	
ı					
ı	未注尺寸		±0.10)	
ı	未注孔徑				
	未注角度		±1°		







SEC A-A

注:

- 1.未注毛邊高度0.05以內.
- 2.SEC B-B以"C"面爲基准.
- 3.SEC A-A以"D"面爲基准.

JALINK 展	觀科技電	『子有限』	公司 А4版		单位 UNIT MM	客 户 CLIENT	
	(Techn		NC.	版 次 A3 No.REV. A3		产品编号 MODEL NO.	
核 准 APPROVED	核 对 CHECKED	设 计 DESIGNED	制 图 DRAWN	材 质 MAT.	0.25t SUS301-3/4H (HV=370°~420°)	产品名称 PRODUCT NAME	鐵片式LOCK SATA 7P 高彈片
		寧夢秋	寧夢秋	材料厚度 MAT. THICK	T=0.25mm	料 号 PRODUCT NO.	203-902650-000
		05/08/18	05/08/18	表面处理 PRCS.		模具编号 MOULD NO.	JA265

SHINITE PBT

ENGINEERING PLASTIC DIVISION

SHINKONGSYNTHETICFIBERSCORPORATION新 光 合 成 纖 維 股 份 有 限 公 司

8th Fl., 123, Sec.2, Nanking East Road, Taipei, Taiwan el: 886-2-2507-0131 886-2-2507-1251(30Lines) 886-3-4932131-173 Fax: 886-2-2506-8047 886-3-491-5763

Technical Data

SHINITE E202G30BK

FR/GF Grade / 防火 / 玻纖強化級: DE3886

		Unit	Test M	lethod	Values
Mechanical properties	機械性質				
Izod Impact(Notched)	衝擊強度	Kg-cm/cm	ASTM	D256	8.4
Tensile Strength	拉伸強度	Kg/cm ²	ASTM	D638	1200
Elongation	拉伸率	%	ASTM	D638	2.8
Flexural Strength	彎曲強度	Kg/cm ²	ASTM	D790	1870
Flexural Modulus	彎曲模數	Kg/cm ²	ASTM	D790	89700
Rockwell Hardness	洛式硬度	R	ASTM	D785	120
Thermal properties	熱 性 質				
Heat Deflection Temperature	熱變形溫度		ASTM	D648	
66psi		°C			-
264psi		$^{\circ}\mathrm{C}$			205
Flammability	防火性	-	UL	94	V0
Melting Point	熔點	°C	DS	SC	223
Electrical properties	電氣性質				
Dielectric Strength	介電強度	KV/MM	ASTM	D149	20
Dielectric Constant	介電常數		ASTM	D150	4
Volume Resistivity	體積電阻	Ω -CM	ASTM	D257	1.00E+16
Other properties	其它性質				
Specific Gravity	比重	-	ASTM	D792	1.60
Water Absorption	吸水率	%	ASTM	D570	0.07
Mold Shrinkage	成形收縮率		ASTM	D955	
Flow	流動方向	%			0.2~0.4
Cross Flow	垂直方向	%			0.5~0.9
				UL file nu	umber: E107536

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No.: CE/2014/94375 Date: 2014/09/25

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SHINKONG SYNTHETIC FIBERS CORPORATION

8F., NO. 123, SEC. 2, NANKING E. RD., TAIPEI, TAIWAN

(SHINKONG INDUSTRY (HANGZHOU) CO., LTD)

(NO.1, AVENUE 6, ECONOMY & TECHNOLOGY DEVELOPMENT ZONE, HANGZHOU, CHINA)

The following sample(s) was/were submitted and identified by/on behalf of the applicant as :

Sample Submitted By : SHINKONG SYNTHETIC FIBERS CORPORATION

Sample Description : THERMOPLASTIC POLYESTER RESIN

Style/Item No. : SHINITE® PBT E202G30BK

Manufacturer/Vendor : SHINKONG SYNTHETIC FIBERS CORPORATION

Country of Origin : TAIWAN
Sample Receiving Date : 2014/09/19

Testing Period : 2014/09/19 TO 2014/09/25

Test Requested : As specified by client, with reference to RoHS Directive 2011/65/EU Annex II to

determine Cadmium, Lead, Mercury, Cr(VI), PBBs, PBDEs contents in the submitted

sample.

Test Method : Please refer to next page(s).

Test Result(s) : Please refer to next page(s).





No.: CE/2014/94375 Date: 2014/09/25

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SHINKONG SYNTHETIC FIBERS CORPORATION
8F., NO. 123, SEC. 2, NANKING E. RD., TAIPEI, TAIWAN
(SHINKONG INDUSTRY (HANGZHOU) CO., LTD)
(NO.1, AVENUE 6, ECONOMY & TECHNOLOGY DEVELOPMENT ZONE, HANGZHOU, CHINA)

Test Result(s)

PART NAME No.1 : BLACK PLASTIC PELLETS

Toot Itom(a)	Unit	Method	MDL	Result
Test Item(s)	Unit	Wiethod	MIDL	No.1
Cadmium (Cd)	mg/kg	With reference to IEC 62321-5: 2013	2	n.d.
L (Dl-)		and performed by ICP-AES.		44
Lead (Pb)	mg/kg	With reference to IEC 62321-5: 2013 and performed by ICP-AES.	2	11
Mercury (Hg)	mg/kg	With reference to IEC 62321-4: 2013 and performed by ICP-AES.	2	n.d.
Hexavalent Chromium Cr(VI)	mg/kg	With reference to IEC 62321: 2008 and performed by UV-VIS.	2	n.d.
Sum of PBBs	mg/kg		-	n.d.
Monobromobiphenyl	mg/kg]	5	n.d.
Dibromobiphenyl	mg/kg		5	n.d.
Tribromobiphenyl	mg/kg		5	n.d.
Tetrabromobiphenyl	mg/kg		5	n.d.
Pentabromobiphenyl	mg/kg		5	n.d.
Hexabromobiphenyl	mg/kg		5	n.d.
Heptabromobiphenyl	mg/kg		5	n.d.
Octabromobiphenyl	mg/kg		5	n.d.
Nonabromobiphenyl	mg/kg		5	n.d.
Decabromobiphenyl	mg/kg	With reference to IEC 62321: 2008 and	5	n.d.
Sum of PBDEs	mg/kg	performed by GC/MS.	-	n.d.
Monobromodiphenyl ether	mg/kg		5	n.d.
Dibromodiphenyl ether	mg/kg		5	n.d.
Tribromodiphenyl ether	mg/kg		5	n.d.
Tetrabromodiphenyl ether	mg/kg		5	n.d.
Pentabromodiphenyl ether	mg/kg]	5	n.d.
Hexabromodiphenyl ether	mg/kg]	5	n.d.
Heptabromodiphenyl ether	mg/kg]	5	n.d.
Octabromodiphenyl ether	mg/kg]	5	n.d.
Nonabromodiphenyl ether	mg/kg]	5	n.d.
Decabromodiphenyl ether	mg/kg		5	n.d.

Note:

- 1. mg/kg = ppm; 0.1wt% = 1000ppm
- 2. n.d. = Not Detected
- 3. MDL = Method Detection Limit
- 4. " " = Not Regulated



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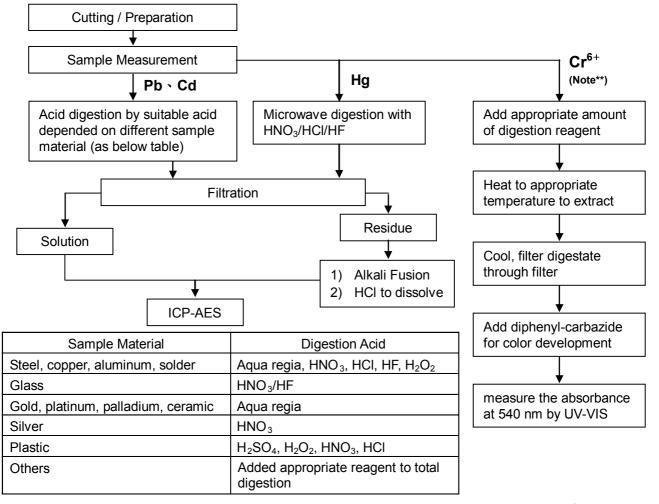
SHINKONG SYNTHETIC FIBERS CORPORATION

8F., NO. 123, SEC. 2, NANKING E. RD., TAIPEI, TAIWAN

(SHINKONG INDUSTRY (HANGZHOU) CO., LTD)

(NO.1, AVENUE 6, ECONOMY & TECHNOLOGY DEVELOPMENT ZONE, HANGZHOU, CHINA)

- 1) These samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr⁶⁺ test method excluded)
- 2) Name of the person who made measurement: Climbgreat Yang
- 3) Name of the person in charge of measurement: Troy Chang



Note**: (1) For non-metallic material, add alkaline digestion reagent and heat to 90~95 ℃.

(2) For metallic material, add pure water and heat to boiling.



No.: CE/2014/94375 Date: 2014/09/25

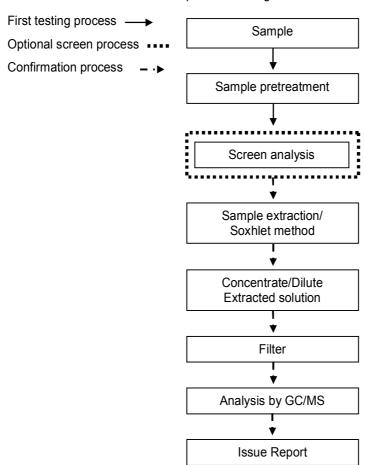
Page: 4 of 5

SHINKONG SYNTHETIC FIBERS CORPORATION

8F., NO. 123, SEC. 2, NANKING E. RD., TAIPEI, TAIWAN
(SHINKONG INDUSTRY (HANGZHOU) CO., LTD)
(NO.1, AVENUE 6, ECONOMY & TECHNOLOGY DEVELOPMENT ZONE, HANGZHOU, CHINA)

PBB/PBDE analytical FLOW CHART

- Name of the person who made measurement: Roman Wong
- Name of the person in charge of measurement: Troy Chang





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SHINKONG SYNTHETIC FIBERS CORPORATION
8F., NO. 123, SEC. 2, NANKING E. RD., TAIPEI, TAIWAN
(SHINKONG INDUSTRY (HANGZHOU) CO., LTD)
(NO.1, AVENUE 6, ECONOMY & TECHNOLOGY DEVELOPMENT ZONE, HANGZHOU, CHINA)

* The tested sample / part is marked by an arrow if it's shown on the photo. *

CE/2014/94375



** End of Report **



Test Report No. F690101/LF-CTSAYAA14-34559

Issued Dat : 2014. 07. 21

Page 1 of 6

LEE KU INDUSTRIALS CO.,LTD.
42,Poseunggongdan-ro Poseung-eup
Pyeongtak-si,Gyeonggi-do
Korea

The following sample(s) was/were submitted and identified by/on beauf of the client as:-

SGS File No.

: AYAA14-34559

Product Name

: C5191(Phosphor Broze Sn6%)

Item No./Part No.

: N/A

Buyer(s)

: KAI KEE METAL, SAMSUNG

Received Date

: 2014. 07. 14

Test Period

: 2014. 07. 15 to 2014. 07. 21

Test Results

: For futher deails, please refer to following page(s)

SGS Forea Co., Ltd.

Jeff Jang / Gemical Lab Mgr



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322. Tie Ovalley, E, LS-ro, Dagan-gu, Anyang-si, Greonggi-do, Korea 431-080 t+82 (0)31 408 000 f +82 (0)31 408 059 http://www.sgsgroup.kr



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Sample No.

: AYAA14-34559.001

Sample Description

: C5191(Phosphor Broze Sn6%)

Item No./Part No.

: N/A

Materials

: N/A

Heavy Metals

Test Items	Unit	Test Method	MDL	Results
Cadmium (Cd)	mg/kg	With reference 6 IEO62321-5:2013 (Determination 6 Cadmium by IP-OES)	0.5	N.D.
Lead (Pb)	mg/kg	With reference 6 IEC62321-5:2013 (Determination 6 Lead by CP-OES)	5	43.2
Mercury (+g)	mg/kg	With reference & IEO62321-4:2013 (Determination & Mercury by ICP-OES)	2	N.D.
Hexavalent Chromium (@ VI) By biding water extraction*	**	With reference & IE062321:2008 (Determination of Hexavalent Chromium by spot tet/Colorimetric Method sing UV-Vis)	+*	Negative
Beryllium (&)	mg/kg	With reference & #A 3052(1996), US EPA 6010B(1996), ICP	0.5	N.D.

Flame Reardants-PBBs/PBDEs

Test Items	Unit		Test Method	MDL	Results
Monobromobiphenyl	mg/kg		IEO52321:2008 (Determination and JBDEs by GC-MS)	5	N.D.
Dibromobiphenyl	mg/kg		IEO62321:2008 (Determination and IBDEs by GC-MS)	5	N.D.
Tribromobiphenyl	mg/kg		IEC62321:2008 (Determination and IBDEs by GC-MS)	5	N.D.
Tetrabromobiphenyl	mg/kg		IEC62321:2008 (Determination and IBDEs by GC-MS)	5	N.D.
Pentabromobiphenyl	mg/kg		IEC62321:2008 (Determination and IBDEs by GC-MS)	5	N.D.
Hexabromobiphenyl	mg/kg	TO A STATE OF THE PARTY OF THE	IEO62321:2008 (Determination and IBDEs by GC-MS)	5	N.D.
Heptabromobiphenyl	mg/kg		IEC62321:2008 (Determination and IBDEs by GC-MS)	5	N.D.
Octabromobiphenyl	mg/kg		IEC62321:2008 (Determination and IBDEs by GC-MS)	5 1 5	N.D.
Nonabromobiphenyl	mg/kg		IEC62321:2008 (Determination and IBDEs by GC-MS)	5	N.D.
Decabromobiphenyl	mg/kg		IEO62321:2008 (Determination and IBDEs by GC-MS)	5	N.D.
Monobromodiphenyl etter	mg/kg		IEO62321:2008 (Determination and IBDEs by GC-MS)	5	N.D.
Dibromodiphenyl etter	mg/kg		IEO62321:2008 (Determination and IBDEs by GC-MS)	5	N.D.
Tribromodiphenyl ether	mg/kg		IEQ62321:2008 (Determination and IBDEs by GC-MS)	5	N.D.

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SGS Korea Co,Ltd.



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Issued Dat : 2014. 07. 21

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Sample No.

: AYAA14-34559.001

Sample Description

: C5191(Phosphor Broize Sn6%)

Item No./Part No.

: N/A

Materials

: N/A

Flame Réardants-PBBs/PBDEs

Test Items	Unit	Test Method	MDL	Results
Tetrabromodiphenyl ether	mg/kg	With reference to IEC62321:2008 (Determination of IBBs and IBDEs by GC-MS)	5	N.D.
Pentabromodiphenyl etler	mg/kg	With reference to IEC62321:2008 (Determination of IBBs and IBDEs by GC-MS)	5	N.D.
Hexabromodiphenyl ether	_mg/kg	With reference to IEC62321:2008 (Determination of IBBs and IBDEs by GC-MS)	5	N.D.
Heptabromodiphenyl ether	mg/kg	With reference to IEC62321:2008 (Determination of IBBs and IBDEs by GC-MS)	5	N.D.
Octabromodiphenyl ether	mg/kg	With reference to IEC62321:2008 (Determination of IBBs and IBDEs by GC-MS)	5	N.D.
Nonabromodiphenyl etter	mg/kg	With reference to IEC62321:2008 (Determination of IBBs and IBDEs by GC-MS)	5	N.D.
Decabromodiphenyl ether	mg/kg	With reference of IEC62321:2008 (Determination of IBBs and IBDEs by GC-MS)	5	N.D.

NOTE:

- (1) N.D. =Not detected.(<MDL)
- (2) mg/kg =ppm
- (3) MDL = Method Detection Limit
- (4) -= Noregulation
- (5) Negative =Undetectable / Psitive =Detectable
- (6) ** = Qualitative analysis (No Unit)
- (7) * =Boiling-water-extraction:

Negative = Alsence of CrVI cating

Positive = Presence of CrVI coating; the detected concentration in biding-water-extraction solution is equal or greater than 0.02 rg/kg with 50 cn2 sample surface area.



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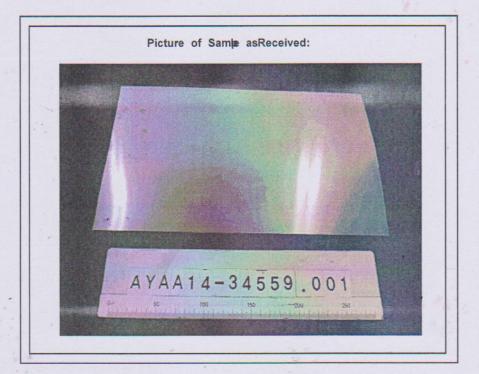
322, Tim Civalley, B. LS-ro, Bingan-gu, Anyang-si, Geonggi-do, Korea 431-080 e+82 (0)31 408 000 f+82 (0)31 408 056 http://www.spsgroup.kr



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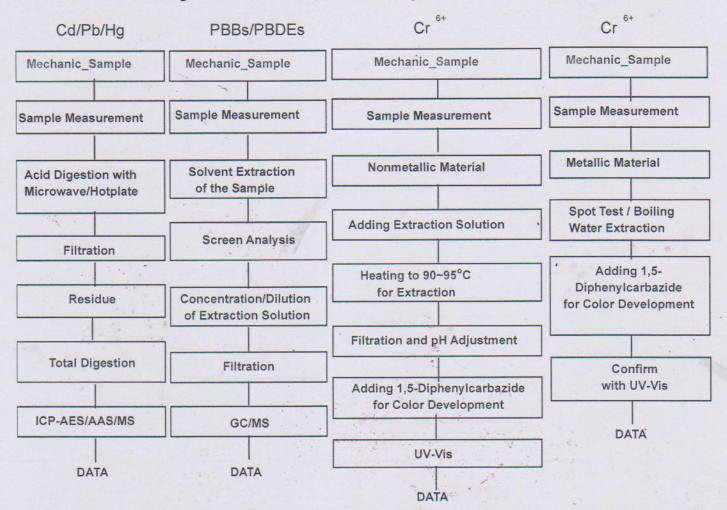


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Testing Flow Chart for RoHS:Cd/Pb/Hg/Cr6+ /PBBs&PBDEs Testing



The samples were dissolved obtally by pe-conditioning nethod according to above flowchart for CQPb, Hg. dSen Chef Gilsae Yi

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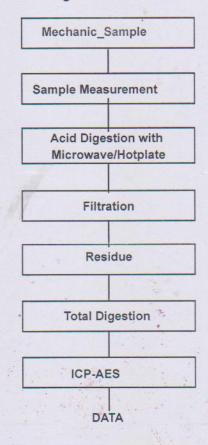
Test Reportno. F690101/LF-CTSAYAA14-34559

Issued Dat : 2014.07.21

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Flow Chart for Inorganic Elements Testing

nbrganic Elements



Major Inorganic Antimony(Sb) ,Beryllium(Be) , Phosphorus(P) ,

Heavy Metals Arsenic(As) etc.

*** End of Report ***



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SGS Korea Co,Ltd.



No. CANEC1506413211

Date: 29 Apr 2015

Page 1 of 4

SHENZHEN JUTENG METAL MATERIAL CO.,LTD

BUILDING 2 HUAFENG OVERSEAS STUDENTS PIONEER PARK BAOLONG FIRST ROAD NANYUE LONGGANG DISTRICT SHENZHEN CITY

海巨衛金屬材料有來了

The following sample(s) was/were submitted and identified on behalf of the clients as: SUS301

SGS Job No.:

CP15-021918 - SZ

Date of Sample Received:

24 Apr 2015

Testing Period:

24 Apr 2015 - 28 Apr 2015

Test Requested:

Selected test(s) as requested by client.

Test Method:

Please refer to next page(s).

Test Results:

Please refer to next page(s).

Conclusion:

Based on the performed tests on submitted sample(s), the results of Lead, Mercury, Cadmium, Hexavalent chromium comply with the limits as set by RoHS

Directive 2011/65/EU Annex II; recasting 2002/95/EC.

Signed for and on behalf of SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch

Merry Lv

Approved Signatory



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Attention: To check the authenticity of testing Inspection report & cartificate, please contact us at telephone: (86-755)8307 1443

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No. CANEC1506413211

Date: 29 Apr 2015

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Test Results:

Test Part Description:

Specimen No.

SGS Sample ID

Description

SN1

CAN15-064132.005

Silver-gray metal

Remarks

(1) 1 mg/kg = 1 ppm = 0.0001%

(2) MDL = Method Detection Limit

(3) ND = Not Detected (< MDL)

(4) "-" = Not Regulated

RoHS Directive 2011/65/EU

Test Method: (1)With reference to IEC 62321-5:2013, determination of Cadmium by ICP-OES.

(2)With reference to IEC 62321-5:2013, determination of Lead by ICP-OES. (3)With reference to IEC 62321-4:2013, determination of Mercury by ICP-OES.

(4)With reference to IEC 62321:2008, determination of Hexavalent Chromium by spot test /

Colorimetric Method using UV-Vis.

Test Item(s)	Limit	Unit	MDL	005
Cadmium (Cd)	100	mg/kg	2	ND
Lead (Pb)	1,000	mg/kg	2	ND
Mercury (Hg)	1,000	mg/kg	2	ND
Hexavalent Chromium (CrVI)		-	0	Negative

Notes:

- (1) The maximum permissible limit is quoted from the directive 2011/65/EU, Annex II.
- (2) Spot-test:

Negative = Absence of CrVI coating, Positive = Presence of CrVI coating;

(The tested sample should be further verified by boiling-water-extraction method if the spot test result is Negative or cannot be confirmed.)

◇Boiling-water-extraction:

Negative = Absence of CrVI coating

Positive = Presence of CrVI coating; the detected concentration in boiling-water-extraction solution is equal or greater than 0.02 mg/kg with 50 cm2 sample surface area.

Information on storage conditions and production date of the tested sample is unavailable and thus results of Cr(VI) represent status of the sample at the time of testing.



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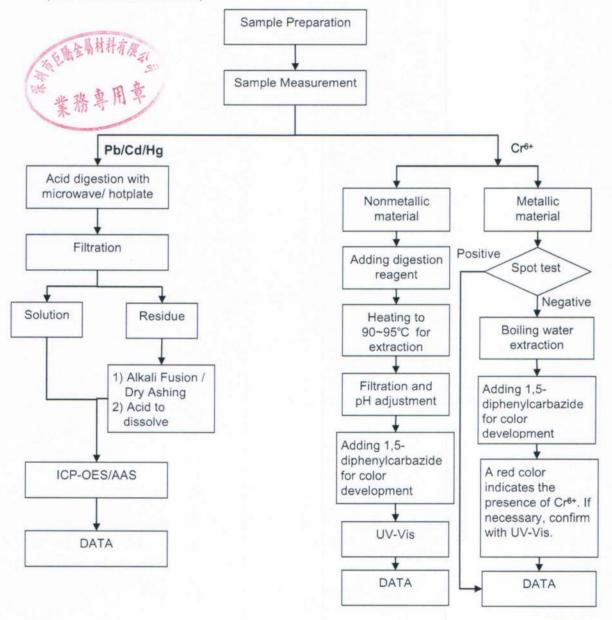
Date: 29 Apr 2015

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ATTACHMENTS

RoHS Testing Flow Chart

- 1) Name of the person who made testing: Bruce Xiao
- 2) Name of the person in charge of testing: Bella Wang
- These samples were dissolved totally by pre-conditioning method according to below flow chart (Cr6+ test method excluded).





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Date: 29 Apr 2015

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Sample photo:



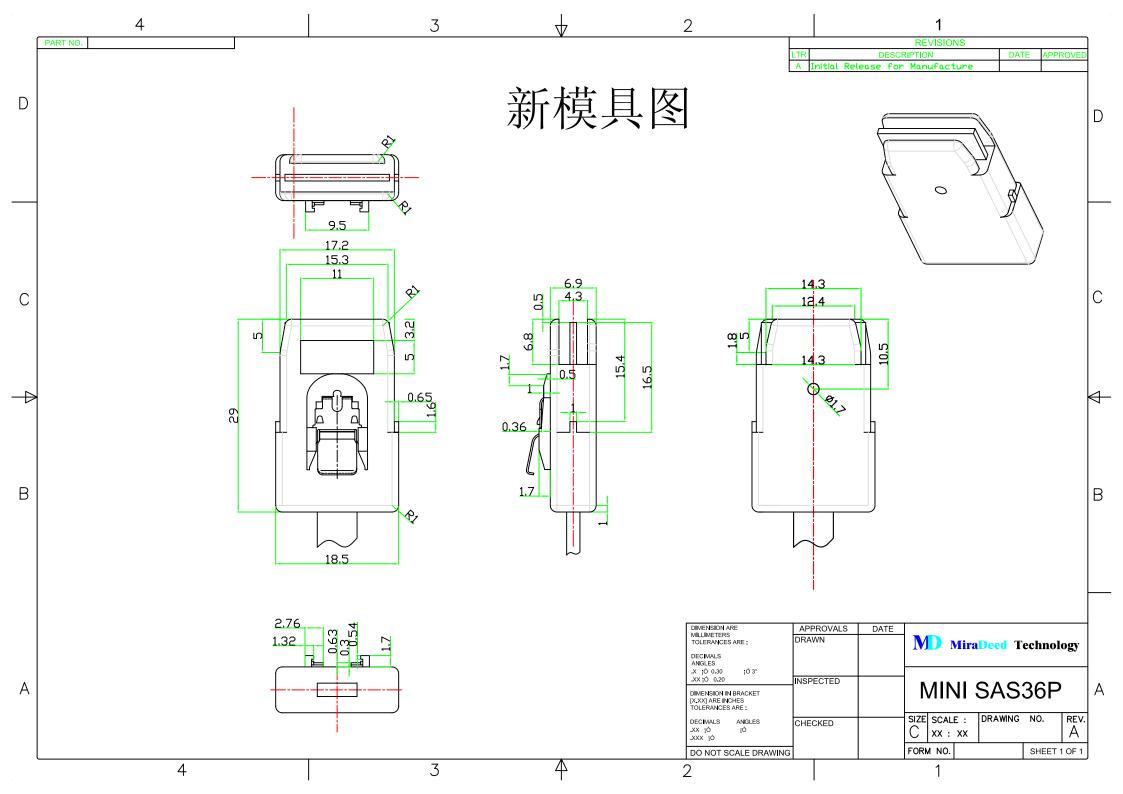
SGS authenticate the photo on original report only

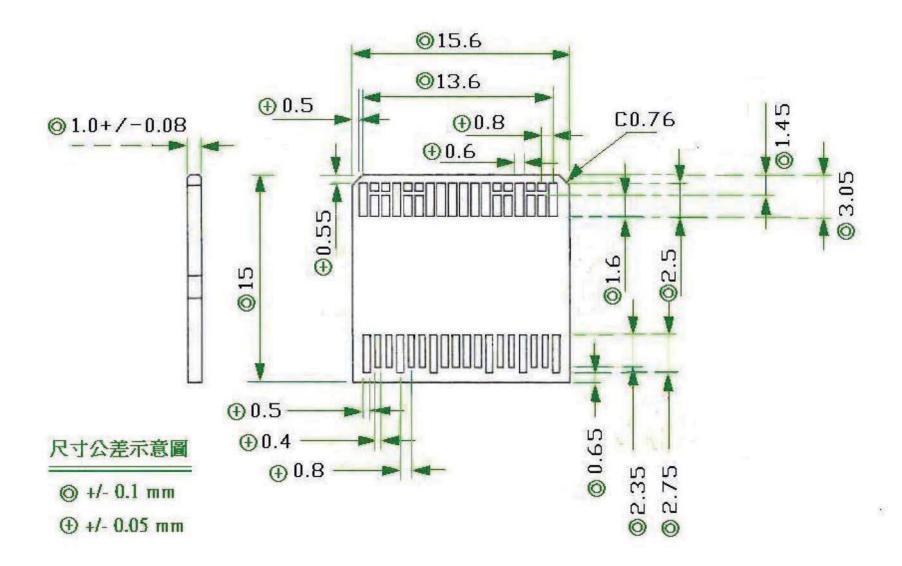
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測試報告

Test Report

號碼(No.) : CE/2014/42639 日期(Date) : 2014/04/17 頁數(Page) : 1 of 11

鴻海精密工業股份有限公司

HON HAI PRECISION IND. CO., LTD.

新北市土城區自由街2號

NO. 2, ZIHYOU ST., TUCHENG DIST., NEW TAIPEI CITY 23678, TAIWAN (R. O. C.)

以下測試樣品係由申請廠商所提供及確認 (The following sample(s) was/were submitted and identified by/on behalf of the applicant as):

樣品名稱(Sample Description)

: POTASSIUM GOLD CYANIDE (金氰化鉀)

樣品型號(Style/Item No.)

: 903-0000-020

收件日期(Sample Receiving Date)

: 2014/04/11

測試期間(Testing Period)

: 2014/04/11 TO 2014/04/17

測試結果(Test Results) : 請見下一頁 (Please refer to next pages).



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號碼(No.): CE/2014/42639 日期(Date): 2014/04/17 頁數(Page): 2 of 11

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新北市土城區自由街2號

NO. 2, ZIHYOU ST., TUCHENG DIST., NEW TAIPEI CITY 23678, TAIWAN (R. O. C.)

測試結果(Test Results)

測試部位(PART NAME)No.1 : 白色粉末 (WHITE POWDER)

測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限値 (MDL)	結果 (Result) No.1
鎬 / Cadmium (Cd)	mg/kg	參考IEC 62321-5: 2013方法,以感應耦合 電漿原子發射光譜儀檢測. / With reference to IEC 62321-5: 2013 and performed by ICP-AES.	2	n.d.
鉛 / Lead (Pb)	mg/kg	参考IEC 62321-5: 2013方法, 以感應耦合 電漿原子發射光譜儀檢測. / With reference to IEC 62321-5: 2013 and performed by ICP-AES.	2	n.d.
汞 / Mercury (Hg)	mg/kg	參考IEC 62321-4: 2013方法, 以感應耦合 電漿原子發射光譜儀檢測. / With reference to IEC 62321-4: 2013 and performed by ICP-AES.	2	n.d.
六價络 / Hexavalent Chromium Cr(VI)	mg/kg	参考IEC 62321: 2008方法,以UV-VIS檢測. / With reference to IEC 62321: 2008 and performed by UV-VIS.	2	n.d.
绨 / Antimony (Sb)	mg/kg	參考US EPA 3052方法,以感應耦合電漿原子發射光譜儀檢測. / With reference to US EPA Method 3052. Analysis was performed by ICP-AES.	2	n.d.
砷 / Arsenic (As)	mg/kg	參考US EPA 3052方法,以感應耦合電漿原子發射光譜儀檢測. / With reference to US EPA Method 3052. Analysis was performed by ICP-AES.	2	n.d.

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測試項目	單位	測試方法	方法偵測 極限値	結果 (Result)
(Test Items)	(Unit)	(Method)	(MDL)	No.1
鈹 / Beryllium (Be)	mg/kg	参考US EPA 3052方法,以感應耦合電漿原子發射光譜儀檢測. / With reference to US EPA Method 3052. Analysis was performed by ICP-AES.	2	n.d.
全氟辛烷磺酸 / Perfluorooctane sulfonates (PFOS-Acid, Metal Salt, Amide)	mg/kg	参考US EPA 3550C: 2007方法,以液相層析/質譜儀檢測./With reference to US EPA 3550C: 2007. Analysis was performed by LC/MS.	10	n.d.
全氟辛酸 / PFOA (CAS No.: 335-67- 1)	mg/kg	参考US EPA 3550C: 2007方法,以液相層析/質譜儀檢測./With reference to US EPA 3550C: 2007. Analysis was performed by LC/MS.	10	n.d.
鹵素 / Halogen				
鹵素(氟)/ Halogen-Fluorine (F) (CAS No.: 14762-94-8)	mg/kg		50	n.d.
鹵素 (氣) / Halogen-Chlorine (C1) (CAS No.: 22537-15-1)	mg/kg	參考BS EN 14582:2007, 以離子層析儀分 析. / With reference to BS EN	50	n.d.
鹵素(溴)/ Halogen-Bromine (Br) (CAS No.: 10097-32-2)	mg/kg	14582:2007. Analysis was performed by IC.	50	n.d.
鹵素(碘)/ Halogen-Iodine (I) (CAS No.: 14362-44-8)	mg/kg		50	n.d.

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測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限値	結果 (Result)
多溴聯苯總和 / Sum of PBBs	/1		(MDL)	No.1
	mg/kg			n.d.
一溴聯苯 / Monobromobiphenyl	mg/kg		5	n.d.
二溴聯苯 / Dibromobiphenyl	mg/kg		5	n.d.
三溴聯苯 / Tribromobiphenyl	mg/kg		5	n.d.
四溴聯苯 / Tetrabromobiphenyl	mg/kg		5	n.d.
五溴聯苯 / Pentabromobiphenyl	mg/kg		5	n.d.
六溴聯苯 / Hexabromobiphenyl	mg/kg		5	n.d.
七溴聯苯 / Heptabromobiphenyl	mg/kg		5	n.d.
八溴聯苯 / Octabromobiphenyl	mg/kg		5	n.d.
九溴聯苯 / Nonabromobiphenyl	mg/kg		5	n.d.
十溴聯苯 / Decabromobiphenyl	mg/kg	參考IEC 62321: 2008方法,以氣相層析/質	5	n.d.
多溴聯苯醚總和 / Sum of PBDEs	mg/kg	譜儀檢測. / With reference to IEC 62321: 2008 and performed by GC/MS.	-	n.d.
一溴聯苯醚 / Monobromodiphenyl ether	mg/kg	02321. 2006 and performed by GC/MS.	5	n.d.
二溴聯苯醚 / Dibromodiphenyl ether	mg/kg		5	n.d.
三溴聯苯醚 / Tribromodiphenyl ether	mg/kg		5	n.d.
四溴聯苯醚 / Tetrabromodiphenyl ether	mg/kg		5	n.d.
五溴聯苯醚 / Pentabromodiphenyl ether	mg/kg		5	n.d.
六溴聯苯醚 / Hexabromodiphenyl ether	mg/kg		5	n.d.
七溴聯苯醚 / Heptabromodiphenyl ether	mg/kg		5	n.d.
八溴聯苯醚 / Octabromodiphenyl ether	mg/kg		5	n.d.
九溴聯苯醚 / Nonabromodiphenyl ether	mg/kg		5	n.d.
十溴聯苯醚 / Decabromodiphenyl ether	mg/kg		5	n.d.

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備註(Note):

- 1. mg/kg = ppm ; 0.1wt% = 1000ppm
- 2. n.d. = Not Detected (未檢出)
- 3. MDL = Method Detection Limit (方法偵測極限值)
- 4. "-" = Not Regulated (無規格值)

PFOS参考資訊(Reference Information): 持久性有機污染物 POPs - (EU) 757/2010

PFOS濃度在物質或製備中不得超過0.001%(10ppm),在半成品、成品或零部件中不得超過0.1%(1000ppm),在紡織品或塗層材料中不得超過 $1ug/m^2$ 。

(Outlawing PFOS as substances or preparations in concentrations above 0.001% (10ppm), in semifinished products or articles or parts at a level above 0.1%(1000ppm), in textiles or other coated materials above $1\mu g/m^2$.)

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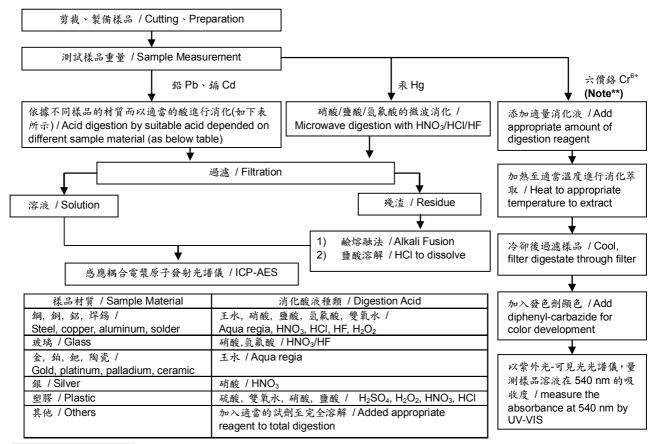
鴻海精密工業股份有限公司

HON HAI PRECISION IND. CO., LTD.

新北市土城區自由街2號

NO. 2, ZIHYOU ST., TUCHENG DIST., NEW TAIPEI CITY 23678, TAIWAN (R. O. C.)

- 1) 根據以下的流程圖之條件,樣品已完全溶解。(六價鉻測試方法除外) / These samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr⁶⁺ test method excluded)
- 2) 测試人員:楊登偉 / Name of the person who made measurement: Climbgreat Yang
- 3) 測試負責人:張啓興 / Name of the person in charge of measurement: Troy Chang



Note** (For IEC 62321)

- (1) 針對非金屬材料加入鹼性消化液,加熱至 90~95℃萃取. / For non-metallic material, add alkaline digestion reagent and heat to 90~95℃.
- (2) 針對金屬材料加入純水,加熱至沸騰萃取. / For metallic material, add pure water and heat to boiling.

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Test Report

號碼(No.): CE/2014/42639 日期(Date): 2014/04/17 頁數(Page): 7 of 11

鴻海精密工業股份有限公司

HON HAI PRECISION IND. CO., LTD.

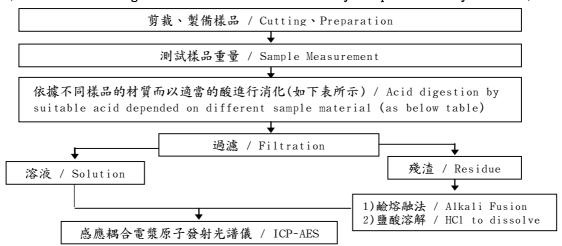
新北市土城區自由街2號

NO. 2, ZIHYOU ST., TUCHENG DIST., NEW TAIPEI CITY 23678, TAIWAN (R. O. C.)

- 1) 根據以下的流程圖之條件,樣品已完全溶解。 / These samples were dissolved totally by pre-conditioning method according to below flow chart.
- 2) 測試人員:楊登偉 / Name of the person who made measurement: Climbgreat Yang
- 3) 測試負責人:張啓興 / Name of the person in charge of measurement: Troy Chang

元素以 ICP-AES 分析的消化流程圖

(Flow Chart of digestion for the elements analysis performed by ICP-AES)



鋼,銅,鋁,焊錫 / Steel, copper, aluminum, solder	王水,硝酸,鹽酸,氫氟酸,雙氧水 /
	Aqua regia, HNO3, HC1, HF, H2O2
玻璃 / Glass	硝酸,氫氟酸 / HNO3/HF
金,鉑,鈀,陶瓷 / Gold, platinum, palladium, ceramic	王水 / Aqua regia
銀 / Silver	硝酸 / HNO3
塑膠 / Plastic	硫酸,雙氧水,硝酸,鹽酸 / H2SO4, H2O2, HNO3, HC1
其他 / Others	加入適當的試劑至完全溶解 / Added appropriate
	reagent to total digestion

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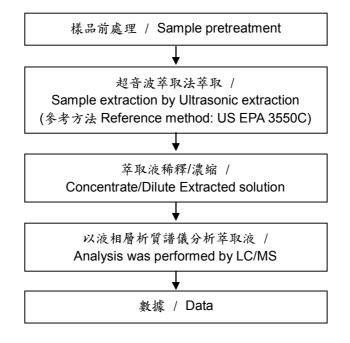
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全氟辛酸/全氟辛烷磺酸分析流程圖 / PFOA/PFOS analytical flow chart

- 測試人員: 翁賜彬 / Name of the person who made measurement: Roman Wong
- 測試負責人:張啓興 / Name of the person in charge of measurement: Troy Chang



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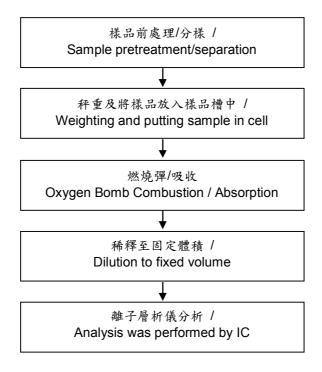
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鹵素分析流程圖 / Analytical flow chart of halogen content

- 測試人員: 陳恩臻 / Name of the person who made measurement: Rita Chen
- 測試負責人:張啓興 / Name of the person in charge of measurement: Troy Chang



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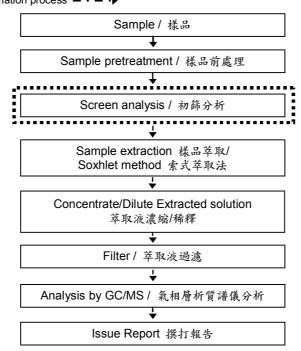
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NO. 2, ZIHYOU ST., TUCHENG DIST., NEW TAIPEI CITY 23678, TAIWAN (R. O. C.)

多溴聯苯/多溴聯苯醚分析流程圖 / PBB/PBDE analytical FLOW CHART

- 測試人員:翁賜彬 / Name of the person who made measurement: Roman Wong
- 測試負責人:張啓興 / Name of the person in charge of measurement: Troy Chang



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Test Report

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NO. 2, ZIHYOU ST., TUCHENG DIST., NEW TAIPEI CITY 23678, TAIWAN (R. O. C.)

* 照片中如有箭頭標示,則表示為實際檢測之樣品/部位. *
(The tested sample / part is marked by an arrow if it's shown on the photo.)

CE/2014/42639



** 報告結尾 (End of Report) **

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Test Report

號碼(No.): KA/2014/C1451 日期(Date): 2014/12/27 頁數(Page): 1 of 27

金居開發股份有限公司 CO-TECH DEVELOPMENT CORP. 64064雲林縣斗六市科工八路56號 NO. 56, KOUKONG 8 ROAD, TOULIEU, YUN LIN, TAIWAN, R. O. C.

以下測試樣品係由客户送樣,且由客户聲稱並經客户確認如下

(The following samples was/were submitted and identified by/on behalf of the client as):

樣品名稱(Sample Description)

樣品型號(Style/Item No.)

訂單號碼(Order No.)

收件日期(Sample Receiving Date)

測試期間(Testing Period)

送樣廠商(Sample Submitted By)

: 電解銅箔

: SD101

: 4500031611

: 2014/12/18

: 2014/12/18 TO 2014/12/27

: 金居開發股份有限公司 (CO-TECH DEVELOPMENT CORP.)

測試結果(Test Results)

: 請見下一頁 (Please refer to next pages).

Ray Chang Ph.D. / Manager-Te Signed for and on behalf **SGS Taiwan Limited** Chemical Laboratory-Kaohsiung

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金居開發股份有限公司 CO-TECH DEVELOPMENT CORP. 64064雲林縣斗六市科工八路56號 NO. 56, KOUKONG 8 ROAD, TOULIEU, YUN LIN, TAIWAN, R. O. C.

測試結果(Test Results)

測試部位(PART NAME) NO.1 紅銅色/灰色 電解銅箔 (RED COPPER/GREY 電解銅箔)

測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限値 (MDL)	結果 (Result) NO.1
鎬 / Cadmium (Cd)	mg/kg	參考IEC 62321-5: 2013方法,以感應耦合電漿原子 發射光譜儀檢測./With reference to IEC 62321-5: 2013 and performed by ICP-AES.	2	n.d.
鉛 / Lead (Pb)	mg/kg	參考IEC 62321-5: 2013方法,以感應耦合電漿原子 發射光譜儀檢測. / With reference to IEC 62321-5: 2013 and performed by ICP-AES.	2	n.d.
汞 / Mercury (Hg)	mg/kg	參考IEC 62321-4: 2013方法,以感應耦合電漿原子 發射光譜儀檢測. / With reference to IEC 62321-4: 2013 and performed by ICP-AES.	2	n.d.
六價鉻 / Hexavalent Chromium Cr(VI) by boiling water extraction#	**	參考IEC 62321: 2008方法,用Boiling water extraction方法檢測. / With reference to IEC 62321: 2008 and performed by boiling water extraction Method.	0.02mg/kg with 50 cm ² surface area	Negative
多溴聯苯總和 / Sum of PBBs			-	n.d.
一溴聯苯 / Monobromobiphenyl			5	n.d.
二溴聯苯 / Dibromobiphenyl			5	n.d.
三溴聯苯 / Tribromobiphenyl			5	n.d.
四溴聯苯 / Tetrabromobiphenyl		參考IEC 62321: 2008方法,以氣相層析儀/質譜儀	5	n.d.
五溴聯苯 / Pentabromobiphenyl	mg/kg	檢測. / With reference to IEC 62321: 2008 and	5	n.d.
六溴聯苯 / Hexabromobiphenyl		performed by GC/MS.	5	n.d.
七溴聯苯 / Heptabromobiphenyl			5	n.d.
八溴聯苯 / Octabromobiphenyl			5	n.d.
九溴聯苯 / Nonabromobiphenyl			5	n.d.
十溴聯苯 / Decabromobiphenyl			5	n.d.

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號碼(No.): KA/2014/C1451 日期(Date): 2014/12/27 頁數(Page): 3 of 27

金居開發股份有限公司 CO-TECH DEVELOPMENT CORP. 64064雲林縣斗六市科工八路56號

NO. 56, KOUKONG 8 ROAD, TOULIEU, YUN LIN, TAIWAN, R. O. C.

測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限値 (MDL)	結果 (Result) NO.1
多溴聯苯醚總和 / Sum of PBDEs			_	n.d.
一溴聯苯醚 / Monobromodiphenyl ether			5	n.d.
二溴聯苯醚 / Dibromodiphenyl ether			5	n.d.
三溴聯苯醚 / Tribromodiphenyl ether			5	n.d.
四溴聯苯醚 / Tetrabromodiphenyl ether		參考IEC 62321: 2008方法,以氣相層析儀/質譜儀	5	n.d.
五溴聯苯醚 / Pentabromodiphenyl ether	mg/kg	檢測. / With reference to IEC 62321: 2008 and	5	n.d.
六溴聯苯醚 / Hexabromodiphenyl ether		performed by GC/MS.	5	n.d.
七溴聯苯醚 / Heptabromodiphenyl ether			5	n.d.
八溴聯苯醚 / Octabromodiphenyl ether			5	n.d.
九溴聯苯醚 / Nonabromodiphenyl ether			5	n.d.
十溴聯苯醚 / Decabromodiphenyl ether			5	n.d.
多氯聯苯 / Polychlorinated Biphenyls (PCBs)	mg/kg	參考US EPA 3540C方法,以氣相層析質譜儀(GC/MS) 檢測. / With reference to US EPA 3540C method. Analysis was performed by GC/MS.	0.5	n.d.
多氣奈 / Polychlorinated Naphthalene (PCNs)	mg/kg	参考US EPA 3540C方法,以氣相層析質譜儀(GC/MS) 檢測. / With reference to US EPA 3540C method. Analysis was performed by GC/MS.	5	n.d.
多氣三聯苯 / Polychlorinated Terphenyls (PCTs)	mg/kg	参考US EPA 3540C方法,以氣相層析質譜儀(GC/MS) 檢測. / With reference to US EPA 3540C method. Analysis was performed by GC/MS.	0.5	n.d.
短鏈氯化石蠟 / Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins) (CAS No.: 085535-84-8))	%	參考US EPA 3540C: 1996方法,以氣相層析儀/電子補捉偵測器檢測. / With reference to US EPA 3540C: 1996 method. Analysis was performed by GC/ECD.	0.01	n.d.
滅蟻靈 / Mirex (CAS No.: 2385-85-5)	mg/kg	参考US EPA 8270D方法,以氣相層析質譜儀(GC/MS) 檢測. / With reference to US EPA 8270D method. Analysis was performed by GC/MS.	4	n.d.
五氣酚 / PCP (Pentachlorophenol) (CAS No.: 87-86-5)	mg/kg	參考KOH方法,以氣相層析儀/電子捕捉偵測器 (GC/ECD)檢測。/With reference to KOH method. Analysis was performed by GC/ECD.	3	n.d.

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NO. 56, KOUKONG 8 ROAD, TOULIEU, YUN LIN, TAIWAN, R. O. C.

測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限値 (MDL)	結果 (Result) NO.1
四溴雙酚-A / Tetrabromobisphenol A (TBBP-A) (CAS No.: 79-94-7)	mg/kg	參考RSTS-E&E-121方法,以液相層析/質譜儀分析. / With reference to RSTS-E&E-121. Analysis was performed by LC/MS.	10	n.d.
福馬林(甲醛)/ Formaldehyde (CAS No.: 50-00-0)	mg/kg	參考ISO 17226-1方法,以高效液相層析儀/二極體 陣列偵測器檢測. / With reference to ISO 17226-1. Analysis was performed by HPLC/DAD.	3	n.d.
六溴環十二烷及所有主要被辨别出的異構物 / Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified (α - HBCDD, β - HBCDD, γ - HBCDD) (CAS No.: 25637-99-4 and 3194-55-6 (134237-51-7, 134237-50-6, 134237-52-8))		参考IEC 62321: 2008方法,以氣相層析/質譜儀檢測. / With reference to IEC 62321: 2008 method. Analysis was performed by GC/MS.	5	n.d.
雙酚 A / Bisphenol A (CAS No.: 80-05-7)	mg/kg	參考RSTS-HL-229-1方法,以液相層析/質譜儀檢測. / With reference to RSTS-HL-229-1 method. Analysis was performed by LC/MS.	1	n.d.
富馬酸二甲酯 / Dimethyl Fumarate (CAS No.: 624-49-7)	mg/kg	參考US EPA 3550C方法,以氣相層析質譜儀(GC/MS) 檢測. / With reference to US EPA 3550C method. Analysis was performed by GC/MS.	0.1	n.d.
聚氯乙烯 / PVC	**	以紅外光譜分析及焰色法檢測. / Analysis was performed by FTIR and FLAME Test.	-	Negative
全氟辛烷磺酸 (PFOS) (PFOS - Acid, Metal Salt, Amide)	μg/m ²	参考US EPA 3550C: 2007方法,以液相層析/質譜儀 檢測. / With reference to US EPA 3550C: 2007. Analysis was performed by LC/MS.	1	n.d.
全氟辛酸(銨) / PFOA (CAS No.: 335-67- 1)	µg/m²	参考US EPA 3550C: 2007方法,以液相層析/質譜儀 檢測. / With reference to US EPA 3550C: 2007. Analysis was performed by LC/MS.	1	n.d.

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金居開發股份有限公司

CO-TECH DEVELOPMENT CORP.

64064雲林縣斗六市科工八路56號

NO. 56, KOUKONG 8 ROAD, TOULIEU, YUN LIN, TAIWAN, R. O. C.

測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限値 (MDL)	結果 (Result) NO.1
有機錫 / Organic-tin compounds				
三丁基錫 / Tributyl Tin (TBT)		本測試參考ISO 17353: 2004方法,以氣相層析儀/	0.03	n.d.
三苯基錫 / Triphenyl Tin (TphT)	/1	火焰光度偵測器檢測. / With reference to ISO	0.03	n.d.
三丁基錫氧化物 / Tributyl Tin Oxide (TBTO)*** (CAS No.: 56-35-9)	mg/kg	17353: 2004. Analysis was performed by GC/FPD.	-	n.d.
鹵素 / Halogen				
鹵素 (氟) / Halogen-Fluorine (F) (CAS No.: 14762-94-8)			50	n.d.
鹵素 (氣) / Halogen-Chlorine (Cl) (CAS No.: 22537-15-1)		参考BS EN 14582:2007, 以離子層析儀分析. / With reference to BS EN 14582:2007. Analysis was performed by IC.	50	n.d.
鹵素 (溴) / Halogen-Bromine (Br) (CAS No.: 10097-32-2)	mg/kg		50	n.d.
鹵素 (碘) / Halogen-Iodine (I) (CAS No.: 14362-44-8)			50	n.d.
石棉 / Asbestos				
陽起石棉 / Actinolite (CAS No.: 77536-66-4)		參考EPA 600/R-93/116 / 立體顯微鏡 (SM), 分散 染色式偏光顯微鏡 (DS-PLM)及X光繞射光譜分析法 (XRD) / With reference to EPA 600/R-93/116 method. Analysis was performed by Stereo Microscope (SM), Dispersion Staining Polarized Light Microscope (DS-PLM) and X-ray Diffraction Spectrometer (XRD).	-	Negative
斜方角閃石棉 / Anthophyllite (CAS No.: 77536-67-5)			-	Negative
鐵石棉(褐石棉) / Amosite (CAS No.: 12172-73-5)			-	Negative
溫石棉(白石棉) / Chrysotile (CAS No.: 12001-29-5)			-	Negative
青石棉 / Crocidolite (CAS No.: 12001-28-4)			-	Negative
透閃石棉 / Tremolite (CAS No.: 77536-68-6)			-	Negative

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NO. 56, KOUKONG 8 ROAD, TOULIEU, YUN LIN, TAIWAN, R. O. C.

測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限値 (MDL)	結果 (Result) NO.1
可塑劑定量分析 / Phthalates				
鄰苯二甲酸甲苯基丁酯 / BBP (Benzyl butyl phthalate) (CAS No.: 85-68-7)			0.003	n.d.
本本二甲酸-單-乙基己基酯 / MEHP (Mono(2-ethyl hexyl) Ester)			0.003	n.d.
# 本二甲酸二環己酯 / DCHP (Di-cyclohexyl phthalate) (CAS No.: 84-61-7)			0.003	n.d.
鄰苯二甲酸二正戊酯/ DNPP(Di-n-pentyl phthalate) (CAS No.: 131-18-0)		本測試參考EN 14372, 以氣相層析儀/質譜儀檢測 之. / With reference to EN 14372. Analysis was performed by GC/MS.	0.003	n.d.
鄰苯二甲酸二丙酯 / DPrP (Di-propyl phthalate) (CAS No.: 131-16-8)			0.003	n.d.
鄰苯二甲酸二乙酯 / DEP (Di-ethyl phthalate) (CAS No.: 84-66-2)	- %		0.003	n.d.
鄰苯二甲酸二己酯 / DNHP (Di-n-hexyl phthalate) (CAS No.: 84-75-3)			0.003	n.d.
鄰苯二甲酸二庚酯 / DHPP (Diheptyl Phthalate)	_		0.003	n.d.
(CAS No.: 3648-21-3) 鄰苯二甲酸二異丁酯 / DIBP (Di-isobutyl phthalate)			0.003	n.d.
(CAS No.: 84-69-5) 鄰苯二甲酸二異壬酯 / DINP (Di-isononyl phthalate) (CAS No.: 28553-12-0, 68515-48-0)			0.01	n.d.

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CO-TECH DEVELOPMENT CORP.

64064雲林縣斗六市科工八路56號

NO. 56, KOUKONG 8 ROAD, TOULIEU, YUN LIN, TAIWAN, R. O. C.

測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限値 (MDL)	結果 (Result) NO.1	
鄰苯二甲酸二異癸酯 / DIDP (Di-isodecyl phthalate) (CAS No.: 26761-40-0, 68515-49-1)			0.01	n.d.	
鄰苯二甲酸二正壬酯 / DNNP (Di-n-nonyl phthalate)(DNP) (CAS No.: 84-76-4)			0.003	n.d.	
鄰苯二甲二異辛酯 / DIOP (Di-isooctyl phthalate) (CAS No.: 27554-26-3)			0.01	n.d.	
鄰苯二甲酸二苯基酯 / DPhP(Diphenyl phthalate) (CAS No.: 84-62-8)		本測試參考EN 14372, 以氣相層析儀/質譜儀檢測 之. / With reference to EN 14372. Analysis was performed by GC/MS.	0.003	n.d.	
鄰苯二甲酸二(2-甲氧基乙基)酯 / DMEP (Bis (2-methoxyethyl) phthalate) (CAS No.: 117-82-8)	- %		0.003	n.d.	
對苯二甲酸(2-乙基己)酯 / DEHT (Di(2-ethylhexyl) terephthalate) (CAS No.: 6422-86-2)			0.003	n.d.	
鄰苯二甲酸二 (2-乙基己基)酯 / DEHP (Di- (2-ethylhexyl) phthalate) (CAS No.: 117-81-7)			0.003	n.d.	
鄰苯二甲酸二丁酯 / DBP (Dibutyl phthalate) (CAS No.: 84-74-2)				0.003	n.d.
鄰苯二甲酸二甲酯 / DMP (Dimethyl phthalate) (CAS No.: 131-11-3)			0.003	n.d.	
鄰苯二甲酸二正辛酯 / DNOP (Di-n-octyl phthalate) (CAS No.: 117-84-0)			0.003	n.d.	

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測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限値 (MDL)	結果 (Result) NO.1
己二酸二(2-乙基己基)酯 / DEHA (Bis(2-ethylhexyl) adipate) (CAS No.: 103-23-1)			0.003	n.d.
鄰苯二甲酸二苯甲基酯 / DBZP(Dibenzyl phthalate) (CAS No.: 523-31-9)			0.003	n.d.
鄰苯二甲酸正戊基異戊基酯 / nPiPP (N-pentyl-isopentylphtalate) (CAS No.: 776297-69-9)			0.003	n.d.
鄰苯二甲酸二異戊酯 / DIPP (Diisopentyl Phthalat) (CAS No.: 605-50-5)	%	本測試參考EN 14372, 以氣相層析儀/質譜儀檢測 之. / With reference to EN 14372. Analysis was performed by GC/MS.	0.003	n.d.
鄰苯二甲酸雙十一烷基酯 / DUDP (Di-n-undecyl phthalate) (CAS No.: 3648-20-2)			0.01	n.d.
鄰苯二甲酸二(C6-8支鏈與直鏈)烷基酯,富 C7 / DIHP (1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich) (CAS No.: 71888-89-6)			0.01	n.d.
鄰苯二甲酸二(C7-11支鏈與直鏈)烷基酯 / DHNUP (1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters) (CAS No.: 68515-42-4)			0.01	n.d.
己二酸二異壬酯 / DINA (Di-isononyl adipate) (CAS No.: 33703-08-1)			0.01	n.d.
對苯二甲酸二甲酯 / DMTP (Dimethyl terephthalate) (CAS No.: 120-61-6)			0.003	n.d.

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NO. 56, KOUKONG 8 ROAD, TOULIEU, YUN LIN, TAIWAN, R. O. C.

測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限値 (MDL)	結果 (Result) NO.1						
支鏈和直鏈1,2-苯二羧二戊酯 / 1,2- Benzenedicarboxylic acid, dipentylester, branched and linear (CAS No.: 84777-06-0)	%		0.003	n.d.						
鄰苯二甲酸二癸酯 / DNDP (Di-n-decyl phthalate) (CAS No.: 87-77-5)					0.003	n.d.				
鄰苯二甲酸二烯丙酯 / DAP (Diallyl phthalate) (CAS No.: 131-17-9)		本測試参考EN 14372, 以氣相層析儀/質譜儀檢測 之./ With reference to EN 14372. Analysis	0.003	n.d.						
鄰苯二甲酸二(2-丁氧基)乙酯 / DBEP (Bis(2-n-Butoxyethyl)phthalate) (CAS No.: 117-83-9)		-	was performed by GC/MS.	0.003	n.d.					
鄰苯二甲酸二 (2-乙氧基乙基)酯 / DEEP (bis (2-Ethoxyethyl)phthalate) (CAS No.: 605-54-9)						-				
鄰苯二甲酸二(4-甲基-2-戊基)酯 / BMPP (Di(4-methyl-2-Pentyl)phthalate) (CAS No.: 146-50-9)			0.003	n.d.						

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測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限値 (MDL)	結果 (Result) NO.1
偶氮 (AZO)				
1): 4-氨基二苯 / 4-AMINODIPHENYL (CAS No.: 92-67-1)		本測試參考EN 14362-1方法,以氣相層析質譜儀(GC/MS)檢測. / With reference to EN 14362-1. Analysis was performed by GC/MS.	3	n.d.
2): 聯苯胺 / BENZIDINE (CAS No.: 92- 87-5)			3	n.d.
3): 4-氯鄰甲苯胺 / 4-CHLORO-O- TOLUIDINE (CAS No.: 95-69-2)			3	n.d.
4): 2-萘胺 / 2-NAPHTHYLAMINE (CAS No.: 91-59-8)			3	n.d.
5): 鄰氨基二甲基偶氮 / O- AMINOAZOTOLUENE (CAS No.: 97-56-3)			3	n.d.
6): 對硝基鄰甲苯胺 / 2-AMINO-4- NITROTOLUENE (CAS No.: 99-55-8)			3	n.d.
7): 對氯苯胺 / P-CHLOROANILINE (CAS No.: 106-47-8)			3	n.d.
8): 4-甲氧基-間苯二胺 / 2,4- DIAMINOANISOLE (CAS No.: 615-05-4)			3	n.d.
9): 4,4'-二氨基二苯甲烷 / 4,4'- DIAMINODIPHENYLMETHANE (CAS No.: 101- 77-9)			3	n.d.
10): 3,3'-二氯聯苯胺 / 3,3'- DICHLOROBENZIDINE (CAS No.: 91-94-1)			3	n.d.
11): 3,3'-二甲氧基聯苯胺 / 3,3'- DIMETHOXYBENZIDINE (CAS No.: 119-90-4)			3	n.d.
12): 3,3'-二甲基聯苯胺 / 3,3'- DIMETHYLBENZIDINE (CAS No.: 119-93-7)			3	n.d.

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金居開發股份有限公司

CO-TECH DEVELOPMENT CORP.

64064雲林縣斗六市科工八路56號

NO. 56, KOUKONG 8 ROAD, TOULIEU, YUN LIN, TAIWAN, R. O. C.

測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限値 (MDL)	結果 (Result) NO.1
13): 3,3'-二甲基-4,4'-二氨基二苯甲烷 /3,3'-DIMETHYL-4,4'- DIAMINODIPHENYLMETHANE (CAS No.: 838- 88-0)	mg/kg	本測試參考EN 14362-1方法,以氣相層析質譜儀(GC/MS)檢測. / With reference to EN 14362-1. Analysis was performed by GC/MS.	3	n.d.
14): 2-甲氧基-5-甲基聯苯 / P-CRESIDINE (2-METHOXY-5-METHYLANILINE) (CAS No.: 120-71-8)			3	n.d.
15): 4,4'-亞甲基雙 (氣苯胺) / 4,4'- METHYLENE-BIS- (2-CHLOROANILINE) (CAS No.: 101-14-4)			3	n.d.
16): 4,4'-氧化雙苯胺 / 4,4'- OXYDIANILINE (CAS No.: 101-80-4)			3	n.d.
17): 4,4'-硫代雙苯胺 / 4,4'- THIODIANILINE (CAS No.: 139-65-1)			3	n.d.
18): 鄰甲苯胺 / O-TOLUIDINE (CAS No.: 95-53-4)			3	n.d.
19): 2,4-二氨基甲苯 / 2,4- TOLUYLENEDIAMINE (CAS No.: 95-80-7)			3	n.d.
20): 2,4,5-三甲基苯胺 / 2,4,5- TRIMETHYLANILINE (CAS No.: 137-17-7)			3	n.d.
21): 鄰位甲氧基苯胺 / O-ANISIDINE (CAS No.: 90-04-0)			3	n.d.
22): 對氨基偶氮苯 / P-AMINOAZOBENZENE (CAS No.: 60-09-3)			3	n.d.
23): 2,4-二甲基苯胺 / 2,4-XYLIDINE (CAS No.: 95-68-1)			3	n.d.
24): 2,6-二甲基苯胺 / 2,6-XYLIDINE (CAS No.: 87-62-7)			3	n.d.

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Test Report

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金居開發股份有限公司 CO-TECH DEVELOPMENT CORP. 64064雲林縣斗六市科工八路56號 NO. 56, KOUKONG 8 ROAD, TOULIEU, YUN LIN, TAIWAN, R. O. C.

備註(Note):

- 1. mg/kg = ppm ; 0.1wt% = 1000ppm
- 2. n.d. = Not Detected (未檢出)
- 3. MDL = Method Detection Limit (方法偵測極限值)
- 4. "-" = Not Regulated (無規格值)
- 5. # = a. Positive means the presence of CrVI on the tested areas (Positive表示測試區域偵測到六價鉻)
 - b. Negative means the absence of CrVI on the tested areas

(Negative表示測試區域未偵測到六價鉻)

The detected concentration in boiling-water-extraction solution is equal or greater than 0.02 mg/kg with 50 cm² tested areas . / 該溶液濃度≧0.02 mg/kg with 50 cm² (tested areas)

- 6. **= Qualitative analysis (No Unit) 定性分析(無單位)
- 7. ***: 該物質是由"三丁基錫", "三苯基錫"之測試結果計算得知. 其MDL是針對"三丁基錫", "三苯基錫" 之評估. (The substance was calculated by the test results of Tributyl Tin, Triphenyl Tin). The MDL is evaluated for Tributyl Tin, Triphenyl Tin.
- 8. 聚氯乙烯(PVC):Negative = Undetectable 陰性(未偵測到); Positive = Detectable 陽性(已偵測到)
- 9. 石棉定性分析試驗範圍: <0.1%~100%,石棉鑑定的判定基準是以檢出含有石棉纖維爲『Positive』,未檢出石棉 纖維為『Negative』。/ Testing range of asbestos qualitative analysis is from less than 0.1% to 100%. The judgment criterion: asbestos fibers being found is shown as "Positive"; asbestos fibers not being found is shown as "Negative".
- 10. 石棉測試由SGS其他實驗室執行 (The Asbestos test was subcontracted to other SGS Laboratory.)
- 11. 聚氯乙烯測試由SGS其他實驗室執行 (The PVC test was subcontracted to other SGS Laboratory.)

PFOS参考資訊(Reference Information): 持久性有機污染物 POPs - (EU) 757/2010

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PFOS濃度在物質或製備中不得超過0.001%(10ppm),在半成品、成品或零部件中不得超過0.1%(1000ppm),在紡織品或塗層材料中不 得超過1μg/m²。(Outlawing PFOS as substances or preparations in concentrations above 0.001% (10ppm), in semifinished products or articles or parts at a level above 0.1%(1000 ppm), in textiles or other coated materials above $1\mu g/m^2$.)

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CO-TECH DEVELOPMENT CORP.

64064雲林縣斗六市科工八路56號

金, 鉑, 鈀, 陶瓷 /

銀 / Silver

塑膠 / Plastic

其他 / Others

Gold, platinum, palladium, ceramic

NO. 56, KOUKONG 8 ROAD, TOULIEU, YUN LIN, TAIWAN, R. O. C.

- 1) 根據以下的流程圖之條件,樣品已完全溶解。(六價鉻測試方法除外) / These samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr6+ test method excluded)
- 2) 測試人員:劉俊宏 / Name of the person who made measurement: Jony Liu
- 測試負責人:張伯睿 / Name of the person in charge of measurement: Ray Chang 剪裁、製備樣品 / Cutting、Preparation 測試樣品重量 / Sample Measurement 六價鉻 Cr6+ 汞 Ha 鉛 Pb、鍋 Cd 依據不同樣品的材質而以適當的酸進行消化(如 硝酸/鹽酸/氫氟酸的微波消化/ 添加適量消化液 / Add 下表所示) / Acid digestion by suitable acid Microwave digestion with appropriate amount of depended on different sample material (as HNO₃/HCI/HF digestion reagent below table) 加熱至適當溫度進行消化 萃取 / Heat to 過濾 / Filtration appropriate temperature to extract 殘渣 / Residue 溶液 / Solution 冷卻後過濾樣品 / Cool, filter digestate through filter 鹼熔融法 / Alkali Fusion 2) 鹽酸溶解 / 加入發色劑顯色 / Add 感應藕合電漿原子發射光譜儀 / ICP-AES HCl to dissolve diphenyl-carbazide for color development 樣品材質 / Sample Material 消化酸液種類 / Digestion Acid 鋼, 銅, 鋁, 焊錫 / 王水, 硝酸, 鹽酸, 氫氟酸, 雙氧水 / Steel, copper, aluminum, solder Aqua regia, HNO3, HC1, HF, 玻璃 / Glass 硝酸, 氫氟酸 / HNO₃/HF 以紫外光-可見光光譜

Note**: (1) 針對非金屬材料加入鹼性消化液,加熱至 90~95℃萃取. / For non-metallic material, add alkaline digestion reagent and heat to 90~95°C.

硫酸, 雙氧水, 硝酸, 鹽酸 / H₂SO₄, H₂O₂, HNO₃, HC1

加入任何酸至完全溶解。 Any acid to total digestion

王水 / Aqua regia

硝酸 / HNO3

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(2) 針對金屬材料加入純水,加熱至沸騰萃取. / For metallic material, add pure water and heat to boiling.

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儀,量測樣品溶液在 540

nm 的吸收度 / measure

the absorbance at 540

nm by UV-VIS

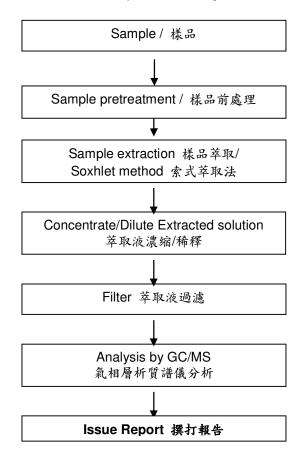


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多溴聯苯/多溴聯苯醚 分析流程圖 / PBB/PBDE analytical FLOW CHART

1)測試人員: 陳威錚 / Name of the person who made measurement: Dorothy Chen 2)測試負責人:張伯睿 / Name of the person in charge of measurement: Ray Chang



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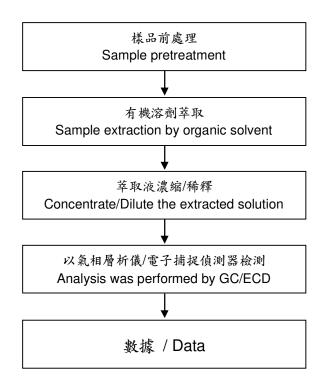
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含氯阻燃劑分析流程 /

Chlorinated Flame retardant analytical flow chart

- 1) 測試人員:陳威錚 / Name of the person who made measurement: Dorothy Chen
- 2) 測試負責人:張伯睿 / Name of the person in charge of measurement: Ray Chang
 - 參考方法(Reference method): USEPA 3540
 - 測試項目(Test Items): PCBs, CP, MCCP / 多氯聯苯, 氯化石蠟, 中鏈氯化石蠟



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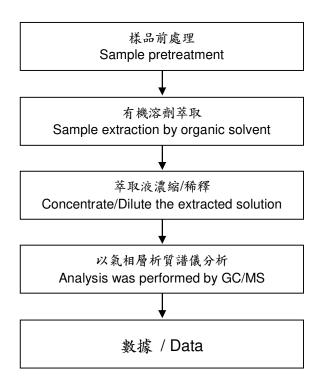
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含氯阻燃劑分析流程 /

Chlorinated Flame retardant analytical flow chart

- 1) 測試人員:陳威錚 / Name of the person who made measurement: Dorothy Chen
- 2) 測試負責人:張伯睿 / Name of the person in charge of measurement: Ray Chang
 - 參考方法(Reference method): US EPA 8270D, US EPA 3540
 - 測試項目(Test Items): PCNs, PCTs, Mirex / 多氣奈, 多氣三聯苯,滅蟻靈,



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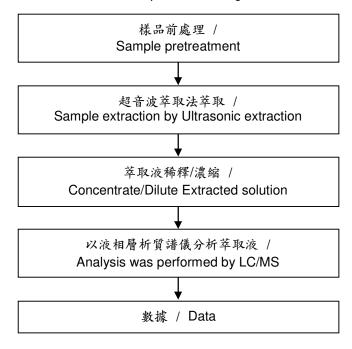


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四溴雙酚-A分析流程圖 / TBBP-A analytical flow chart

- 測試人員:黃璟瓔/ Name of the person who made measurement: Ginny Huang
- 測試負責人:張伯睿/ Name of the person in charge of measurement: Ray Chang



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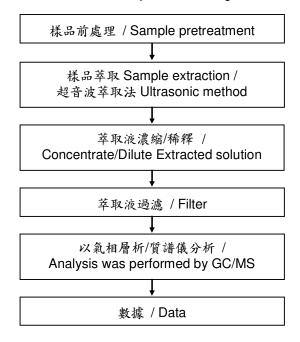


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六溴環十二烷分析流程圖 / HBCDD analytical flow chart

- 1) 測試人員:陳威錚/ Name of the person who made measurement: Dorothy Chen
- 2) 測試負責人:張伯睿/ Name of the person in charge of measurement: Ray Chang



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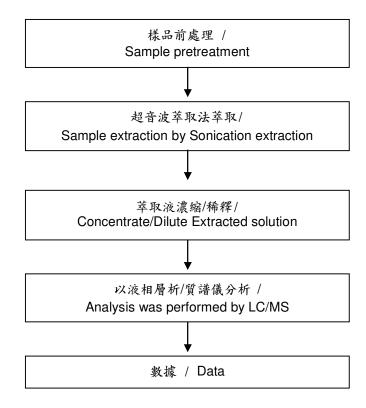


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雙酚A分析流程圖 / Bisphenol A analytical flow chart

- 測試人員: 黄璟璎 / Name of the person who made measurement: Ginny Huang
- 測試負責人:張伯睿/ Name of the person in charge of measurement: Ray Chang



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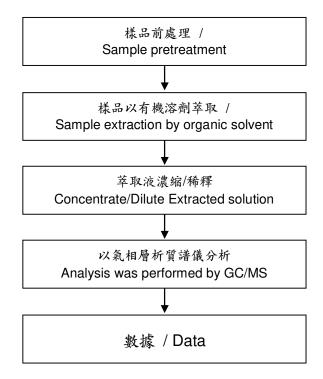


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富馬酸二甲酯分析流程圖 / Analytical flow chart of Dimethyl Fumarate content

- 1) 測試人員:陳威錚 / Name of the person who made measurement: Dorothy Chen
- 2) 測試負責人:張伯睿 / Name of the person in charge of measurement: Ray Chang



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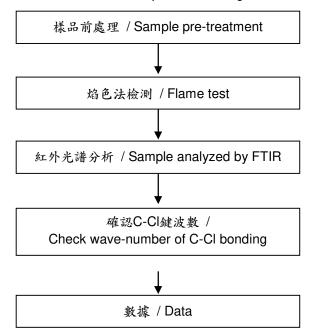
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聚氯乙烯物質判定分析流程圖 /

Analysis flow chart for determination of PVC in material

1)測試人員: 戴秀純 / Name of the person who made measurement: Hannah Tai 2)測試負責人: 林立翔 / Name of the person in charge of measurement: Roger Lin



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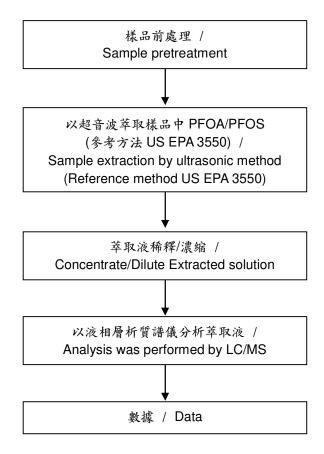
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全氟辛酸(銨)/ 全氟辛烷磺酸分析流程圖 / Analytical flow chart of PFOA/PFOS content

1)測試人員: 黄璟瓔 / Name of the person who made measurement: Ginny Huang

2)测試負責人:張伯睿 / Name of the person in charge of measurement: Ray Chang



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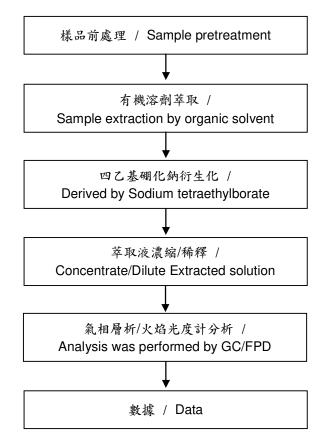


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有機錫分析流程圖 / Analytical flow chart of Organic-Tin content

- 1) 測試人員:陳威錚 / Name of the person who made measurement: Dorothy Chen
- 2) 測試負責人:張伯睿 / Name of the person in charge of measurement: Ray Chang



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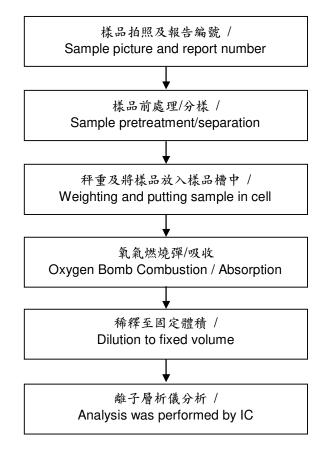


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鹵素分析流程圖 / Analytical flow chart of halogen content

- 1) 測試人員: 洪秀真/ Name of the person who made measurement: Jean Hung
- 2) 測試負責人:張伯睿/ Name of the person in charge of measurement: Ray Chang



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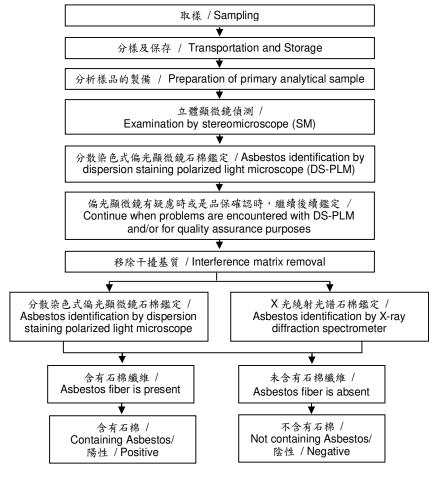
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石棉鑑定分析流程圖 / Analysis flow chart for determination of Asbestos

- 測試人員:高鍵忠 / Name of the person who made measurement: Victor Kao
- 測試負責人:魏明芬 / Name of the person in charge of measurement: Wendy Wei

【参考方法(Reference method): EPA 600/R-93/116】



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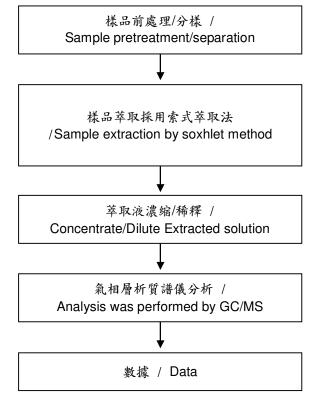
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可塑劑分析流程圖 / Analytical flow chart of phthalate content

1)測試人員: 陳威錚 / Name of the person who made measurement: Dorothy Chen

2)测試負責人:張伯睿 / Name of the person in charge of measurement: Ray Chang



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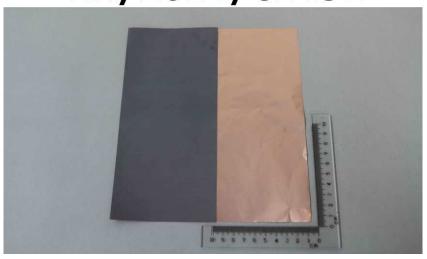
測試報告 **Test Report**

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KA/2014/C1451



** 報告結尾(End of Report) **

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Test Report

號碼(No.): CE/2015/20347 日期(Date): 2015/02/16 頁數(Page): 1 of 65

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南亞塑膠工業股份有限公司(台灣) / NAN YA PLASTICS CORPORATION (TAIWAN) (南亞電子材料(昆山)有限公司 / NAN YA ELECTRONIC MATERIALS (KUNSHAN) CORP., LTD)

(南亞電子材料(惠州)有限公司 / NAN YA ELECTRONIC MATERIALS (HUIZHOU) CORP., LTD)

台灣台北市敦化北路201號 / 201 TUNG HWA NORTH ROAD, TAIPEI, TAIWAN

(江蘇省昆山昆山市長江南路201號 / 201 CHANG JIANG ROAD(S) KUNSHAN ECONOMIC & TECHNICAL DEVELOPMENT ZONE, JIANG SU)

(廣東省惠州市博羅縣石灣鎮永石大道 / YONGSHI BOULEVARD SHIWAN TOWN BOLUO COUNTY HUIZHOU CITY GUANG DONG)

以下測試樣品係由申請廠商所提供及確認 (The following sample(s) was/were submitted and identified by/on behalf of the applicant as):

送樣廠商(Sample Submitted By) : 南亞塑膠工業股份有限公司 (NAN YA PLASTICS CORPORATION)

樣品名稱(Sample Description) : PREPREG (UL E98983)

樣品型號(Style/Item No.) : NP-140B 買主/訂單號碼(Buyer/Order No.) : 10629B3 收件日期(Sample Receiving Date) : 2015/02/02

測試期間(Testing Period) : 2015/02/02 TO 2015/02/16

測試需求(Test Requested):

- (1) 依據客户要求,參考RoHS 2011/65/EU Annex II 指令測試鎬、鉛、汞、六價鉻、多溴聯苯、多溴聯苯醚. (As specified by client, with reference to RoHS Directive 2011/65/EU Annex II to determine Cadmium, Lead, Mercury, Cr(VI), PBBs, PBDEs contents in the submitted sample.)
- (2) 依據客户要求,參考 WTO/TBT 通報 G/TBT/N/EU/256,檢測 DBP, BBP, DEHP, DIBP. (As specified by client, with reference to G/TBT/N/EU/256 of WTO/TBT to test DBP, BBP, DEHP, DIBP.)
- (3) 依據客户要求,檢測 PAHs 及其他測項. / As specified by client, to test PAHs and other item(s).

測試結果(Test Results) : 請見下一頁 (Please refer to next pages). 結論(Conclusion) : 請見下一頁 (Please refer to next pages).



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(廣東省惠州市博羅縣石灣鎮永石大道 / YONGSHI BOULEVARD SHIWAN TOWN BOLUO COUNTY HUIZHOU CITY GUANG DONG)

結論(Conclusion)

- (1) 根據客户所提供的樣品,其鎬、鉛、汞、六價鉻、多溴聯苯、多溴聯苯醚的測試結果符合 RoHS 指令 2011/65/EU Annex II之要求 (Based on the performed tests on submitted samples, the test result(s) of Cadmium, Lead, Mercury, Cr(VI), PBBs, PBDEs comply with the limits as set by RoHS Directive 2011/65/EU Annex II.)
- (2) 根據客户所提供的樣品,其 DBP, BBP, DEHP, DIBP 之測試結果符合 WTO/TBT 通報 G/TBT/N/EU/256 之限值要求 (Based on the performed tests on submitted samples, the test results of DBP, BBP, DEHP, DIBP comply with the limits as set by G/TBT/N/EU/256 of WTO/TBT.)
- (3) 根據客户所提供的樣品,其 PAHs 的測試結果符合德國ZLS的ZEK 01.4-08及其相關修訂文 件中的第1類PAHs要求 (Base upon the performed tests by submitted samples, the test results of PAHs comply with the PAHs requirement according to (Category 1) of ZEK 01.4-08 of German ZLS and its amendments.)



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測試結果(Test Results)

測試部位(PART NAME)No.1 : 黄色板子 (YELLOW SHEET)

測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限値 (MDL)	結果 (Result) No.1	限値 (Limit)
鎬 / Cadmium (Cd)	mg/kg	參考IEC 62321-5: 2013方法, 以感應 耦合電漿原子發射光譜儀檢測. / With reference to IEC 62321-5: 2013 and performed by ICP-AES.	2	n.d.	100
鉛 / Lead (Pb)	mg/kg	參考IEC 62321-5: 2013方法,以感應 耦合電漿原子發射光譜儀檢測. / With reference to IEC 62321-5: 2013 and performed by ICP-AES.	2	7	1000
汞 / Mercury (Hg)	mg/kg	參考IEC 62321-4: 2013方法, 以感應 耦合電漿原子發射光譜儀檢測. / With reference to IEC 62321-4: 2013 and performed by ICP-AES.	2	n.d.	1000
六價络 / Hexavalent Chromium Cr(VI)	mg/kg	参考IEC 62321: 2008方法,以UV-VIS 檢測. / With reference to IEC 62321: 2008 and performed by UV- VIS.	2	n.d.	1000
鈹 / Beryllium (Be)	mg/kg	參考US EPA 3052方法,以感應耦合電 漿原子發射光譜儀檢測. / With reference to US EPA Method 3052. Analysis was performed by ICP-AES.	2	n.d.	-
氧化鈹 / Beryllium oxide (BeO)***	mg/kg	參考US EPA 3052方法,以感應耦合電 漿原子發射光譜儀檢測. / With reference to US EPA Method 3052. Analysis was performed by ICP- AES.***	-	n.d.	-



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測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限値 (MDL)	結果 (Result) No.1	限値 (Limit)
砷 / Arsenic (As) (※2)	mg/kg	參考SGS内部方法RSTS-EE-SVHC-007, 以感應耦合電漿原子發射光譜儀檢測. / SGS In-House method-RSTS-EE- SVHC-007. Analyzed by ICP-AES.	50	n.d.	-
五氧化二砷 / Diarsenic pentaoxide*** (CAS No.: 1303-28-2)	mg/kg	參考SGS内部方法RSTS-EE-SVHC-007, 以感應耦合電漿原子發射光譜儀檢測. / SGS In-House method-RSTS-EE- SVHC-007. Analyzed by ICP-AES.***	-	n.d.	-
三氧化二砷 / Diarsenic trioxide*** (CAS No.: 1327-53-3)	mg/kg	参考SGS内部方法RSTS-EE-SVHC-007, 以感應耦合電漿原子發射光譜儀檢測. / SGS In-House method-RSTS-EE- SVHC-007. Analyzed by ICP-AES.***	-	n.d.	-
绨 / Antimony (Sb)	mg/kg	參考US EPA 3052方法,以感應耦合電 漿原子發射光譜儀檢測. / With reference to US EPA Method 3052. Analysis was performed by ICP-AES.	2	n.d.	-
硼 / Boron (B) (※2)	mg/kg	參考SGS内部方法RSTS-EE-SVHC-007, 以感應耦合電漿原子發射光譜儀檢測. / SGS In-House method-RSTS-EE- SVHC-007. Analyzed by ICP-AES.	50	n.d.	-
硼酸 / Boric acid*** (CAS No.: 10043-35-3; 11113-50-1)	mg/kg	參考SGS内部方法RSTS-EE-SVHC-007, 以感應耦合電漿原子發射光譜儀檢測. / SGS In-House method-RSTS-EE- SVHC-007. Analyzed by ICP-AES.***	-	n.d.	-
無水四硼酸二鈉 / Disodium tetraborate, anhydrous*** (CAS No.: 1303-96-4, 1330-43-4, 12179-04-3)	mg/kg	參考SGS内部方法RSTS-EE-SVHC-007, 以感應耦合電漿原子發射光譜儀檢測. / SGS In-House method-RSTS-EE- SVHC-007. Analyzed by ICP-AES.***	-	n.d.	-

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測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限値 (MDL)	結果 (Result) No.1	限值 (Limit)
水合硼酸鈉 / Tetraboron disodium heptaoxide, hydrate (CAS No.: 12267- 73-1) (*2)	mg/kg	參考SGS内部方法RSTS-EE-SVHC-007, 以感應耦合電漿原子發射光譜儀檢測. / SGS In-House method-RSTS-EE- SVHC-007. Analyzed by ICP-AES.	-	n.d.	-
四溴雙酚-A / Tetrabromobisphenol A (TBBP-A) (CAS No.: 79-94-7)	mg/kg	參考Global SOP RSTS-E&E-121方法, 以液相層析/質譜儀分析. / With reference to Global SOP RSTS-E&E- 121. Analysis was performed by LC/MS.	10	n.d.	-
雙酚 A / Bisphenol A (CAS No.: 80-05-7)	mg/kg	參考RSTS-HL-229-1方法,以超高效能 液相層析串聯質譜儀檢測./With reference to RSTS-HL-229-1 method. Analysis was performed by UPLC- MSMS.	1	n.d.	-
全氟辛烷磺酸 / Perfluorooctane sulfonates (PFOS-Acid, Metal Salt, Amide)	mg/kg	參考US EPA 3550C: 2007方法,以液相層析/質譜儀檢測./ With reference to US EPA 3550C: 2007. Analysis was performed by LC/MS.	10	n.d.	-
全氟辛酸 / PFOA (CAS No.: 335-67-1)	mg/kg	参考US EPA 3550C: 2007方法,以液相 層析/質譜儀檢測./ With reference to US EPA 3550C: 2007. Analysis was performed by LC/MS.	10	n.d.	-
2- (3', 5'-二叔丁基-2'-羟基苯基)苯並 三氮唑 / 2- (3,5-di-tert-buty1-2- hydroxypheny1)-2H-benzotriazole (CAS No.: 3846-71-7)	mg/kg	參考US EPA 3540C方法,以氣相層析/ 質譜儀檢測之. / With reference to US EPA 3540C method. Analysis was performed by GC/MS.	5	n.d.	-
二氯化鈷 / Cobalt dichloride (CAS No.: 7646-79-9)	mg/kg	參考SGS内部方法RSTS-EE-SVHC-007, 以感應耦合電漿原子發射光譜儀檢測. / SGS In-House method-RSTS-EE- SVHC-007. Analyzed by ICP-AES.	50	n.d.	-

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測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限値 (MDL)	結果 (Result) No.1	限値 (Limit)
多氣聯苯 / Polychlorinated Biphenyls (PCBs) (CAS No.: 1336-36-3)	mg/kg	參考US EPA 3540C方法,以氣相層析/ 質譜儀檢測. / With reference to US EPA 3540C method. Analysis was performed by GC/MS.	0.5	n.d.	-
多氯奈 / Polychlorinated Naphthalene (PCNs)	mg/kg	参考US EPA 3540C方法,以氣相層析/ 質譜儀檢測. / With reference to US EPA 3540C method. Analysis was performed by GC/MS.	5	n.d.	-
多氣三聯苯 / Polychlorinated Terphenyls (PCTs)	mg/kg	參考US EPA 3540C方法,以氣相層析/ 質譜儀檢測. / With reference to US EPA 3540C method. Analysis was performed by GC/MS.	0.5	n.d.	-
短鏈氯化石蠟 / Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins) (CAS No.: 85535-84-8)	mg/kg	參考US EPA 3540C方法,以氣相層析/ 質譜儀檢測. / With reference to US EPA 3540C method. Analysis was performed by GC/MS.	100	n.d.	-
甲醛 / Formaldehyde (CAS No.: 50-00-0)	mg/kg	參考ISO 17226-1(2008)方法,以高效 液相層析儀/二極體陣列偵測器檢測./ With reference to ISO 17226- 1(2008). Analysis was performed by HPLC/DAD.	3	n.d.	-
聚氯乙烯 / PVC	**	以紅外光譜分析及焰色法檢測. / Analysis was performed by FTIR and FLAME Test.	-	Negative	-
六氟化硫 / Sulfur Hexafluoride (SF6) (CAS No.: 2551-62-4)	mg/kg	参考US EPA 5021方法,以氣相層析/質譜儀檢測./With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-



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測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限値 (MDL)	結果 (Result) No.1	限値 (Limit)
富馬酸二甲酯 / Dimethyl Fumarate (CAS No.: 624-49-7)	mg/kg	參考US EPA 3550C方法,以氣相層析/ 質譜儀檢測. / With reference to US EPA 3550C method. Analysis was performed by GC/MS.	0.1	n.d.	-
磷酸三(2-氯乙基)酯 / Tris (2- chloroethyl) phosphate (TCEP) (CAS No.: 115-96-8)	mg/kg	參考US EPA 3550C方法,以氣相層析/ 質譜儀檢測. / With reference to US EPA 3550C method. Analysis was performed by GC/MS.	5	n.d.	-
磷酸三(1-氯-2-丙基)酯 / Tris(1- chloro-2-propyl) phosphate (TCPP) (CAS No.: 13674-84-5)	mg/kg	参考US EPA 3550C方法,以氣相層析/ 質譜儀檢測. / With reference to US EPA 3550C method. Analysis was performed by GC/MS.	5	n.d.	-
磷酸三(1,3-二氯異丙基)酯 / Tris(1,3-dichloro-2-propyl)phosphate (TDCPP) (CAS No.: 13674-87-8)	mg/kg	参考US EPA 3550C方法,以氣相層析/ 質譜儀檢測. / With reference to US EPA 3550C method. Analysis was performed by GC/MS.	5	n.d.	-
磷酸三(二甲苯)酯 / Trixylyl phosphate (TXP) (CAS No.: 25155-23- 1)	mg/kg	參考US EPA 3550C方法,以氣相層析/ 質譜儀檢測. / With reference to US EPA 3550C method. Analysis was performed by GC/MS.	25	n.d.	-
六溴環十二烷及所有主要被辨别出的異構物 / Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified (α - HBCDD, β - HBCDD, γ - HBCDD) (CAS No.: 25637-99-4 and 3194-55-6 (134237-51-7, 134237-50-6, 134237-52-8))	mg/kg	參考IEC 62321: 2008方法,以氣相層析/質譜儀檢測. / With reference to IEC 62321: 2008 method. Analysis was performed by GC/MS.	5	n.d.	-



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對特辛基苯酚 / 辛基酚 / 4-(1,1,3,3-tetramethylbutyl) phenol, (4-tert-Octylphenol) (CAS No.: 140-66-9)	mg/kg	参考US EPA 3550C方法,以液相層析/ 質譜儀檢測. / With reference to US EPA 3550C method. Analysis was performed by LC/MS.	10	n.d.	-
双(2-甲氧基乙基)醚 / Bis(2- methoxyethyl) ether (CAS No.: 111- 96-6)	mg/kg	參考US EPA 3550C方法,以氣相層析/ 質譜儀檢測. / With reference to US EPA 3550C method. Analysis was performed by GC/MS.	10	n.d.	-
N,N-二甲基乙醯胺 / N,N-dimethylacetamide (DMAC) (CAS No.: 127-19-5)	mg/kg	參考US EPA 3550C方法,以氣相層析/ 質譜儀檢測. / With reference to US EPA 3550C method. Analysis was performed by GC/MS.	10	n.d.	-
鄰苯二甲酸二 (2-乙基己基)酯 / DEHP (Di- (2-ethylhexyl) phthalate) (CAS No.: 117-81-7)	mg/kg		50	n.d.	1000
鄰苯二甲酸二丁酯 / DBP (Dibutyl phthalate) (CAS No.: 84-74-2)	mg/kg		50	n.d.	1000
鄰苯二甲酸丁苯甲酯 / BBP (Butyl Benzyl phthalate) (CAS No.: 85-68-7)	mg/kg		50	n.d.	1000
鄰苯二甲酸二異丁酯 / DIBP (Di- isobutyl phthalate) (CAS No.: 84-69- 5)	mg/kg	参考IEC 62321-8 (111/321/CD),以氣相層析儀/質譜儀檢測之./ With reference to IEC 62321-8	50	n.d.	1000
鄰苯二甲酸二異壬酯 / DINP (Di- isononyl phthalate) (CAS No.: 28553- 12-0; 68515-48-0)	mg/kg	(111/321/CD). Analysis was performed by GC/MS.	50	n.d.	-
鄰苯二甲酸二異癸酯 / DIDP (Di- isodecyl phthalate) (CAS No.: 26761- 40-0; 68515-49-1)	mg/kg		50	n.d.	-
鄰苯二甲酸二正辛酯 / DNOP (Di-n- octyl phthalate) (CAS No.: 117-84-0)	mg/kg		50	n.d.	-



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測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限値 (MDL)	結果 (Result) No.1	限值 (Limit)
鄰苯二甲酸二己酯 / DNHP (Di-n-hexyl phthalate) (CAS No.: 84-75-3)	%	参考EN 14372, 以氣相層析/質譜儀檢 測. / With reference to EN 14372. Analysis was performed by GC/MS.	0.003	n.d.	-
鄰苯二甲酸二 (C6-8支鏈與直鏈)烷基酯 ,富C7 / DIHP (1,2- Benzenedicarboxylic acid, di-C6-8- branched alkyl esters, C7-rich) (CAS No.: 71888-89-6)	%	參考EN 14372, 以氣相層析/質譜儀檢測. / With reference to EN 14372. Analysis was performed by GC/MS.	0.01	n.d.	-
鄰苯二甲酸二 (C7-11支鏈與直鏈)烷基酯 / DHNUP (1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters) (CAS No.: 68515-42-4)	%	参考EN 14372, 以氣相層析/質譜儀檢測. / With reference to EN 14372. Analysis was performed by GC/MS.	0.01	n.d.	-
鄰苯二甲酸二 (2-甲氧基乙基)酯 / DMEP (Bis (2-methoxyethyl) phthalate) (CAS No.: 117-82-8)	%	參考EN 14372, 以氣相層析/質譜儀檢 測. / With reference to EN 14372. Analysis was performed by GC/MS.	0.003	n.d.	-
鄰苯二甲酸二異戊酯 / DIPP (DiisopentylPhthalate) (CAS No.: 605-50-5)	%	参考EN 14372, 以氣相層析/質譜儀檢 測. / With reference to EN 14372. Analysis was performed by GC/MS.	0.003	n.d.	-
支鏈和直鏈1,2-苯二羧二戊酯 / 1,2- Benzenedicarboxylic acid, dipentylester, branched and linear (CAS No.: 84777-06-0)	%	参考EN 14372, 以氣相層析/質譜儀檢測. / With reference to EN 14372. Analysis was performed by GC/MS.	0.003	n.d.	-



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(廣東省惠州市博羅縣石灣鎮永石大道 / YONGSHI BOULEVARD SHIWAN TOWN BOLUO COUNTY HUIZHOU CITY GUANG DONG)

測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限値 (MDL)	結果 (Result) No.1	限値 (Limit)
鄰苯二甲酸正戊基異戊基酯 / N-pentyl-isopentylphthalate	%	参考EN 14372, 以氣相層析/質譜儀檢測. / With reference to EN 14372. Analysis was performed by GC/MS.	0.003	n.d.	-
鄰苯二甲酸二戊酯 / DPP (Di-pentyl phthalate) (CAS No.: 131-18-0)	%	参考EN 14372, 以氣相層析/質譜儀檢測. / With reference to EN 14372. Analysis was performed by GC/MS.	0.003	n.d.	-
鄰苯二甲酸二正戊酯 / DNPP (Di-n-pentyl phthalate) (CAS No.: 131-18-0)	%	參考EN 14372, 以氣相層析/質譜儀檢測. / With reference to EN 14372. Analysis was performed by GC/MS.	0.003	n.d.	-
乙二醇二甲醚 / Ethylene glycol dimethyl ether (EGDME) (CAS No.: 110-71-4)	mg/kg	參考US EPA 3550C方法,以氣相層析/質譜儀檢測./With reference to US EPA 3550C method. Analysis was performed by GC/MS.	10	n.d.	-
過氣酸鹽 / Perchlorate (CAS No.: 14797-73-0)	mg/kg	以離子層析儀檢測. / Analysis was performed by IC.	0.006	n.d.	-
溴甲烷 / Bromomethane (CAS No.: 74-83-9)	mg/kg	參考US EPA 5021方法,以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
鹵素 / Halogen					
鹵素(氯)/ Halogen-Chlorine (C1) (CAS No.: 22537-15-1)			50	516	-
鹵素(溴)/ Halogen-Bromine (Br) (CAS No.: 10097-32-2)	/1	参考BS EN 14582:2007, 以離子層析儀 分析. / With reference to BS EN	50	72600	-
鹵素(氟)/ Halogen-Fluorine (F) (CAS No.: 14762-94-8)	mg/kg	14582:2007. Analysis was performed by IC.	50	1330	-
鹵素(碘)/ Halogen-Iodine (I) (CAS No.: 14362-44-8)			50	n.d.	-

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測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限値 (MDL)	結果 (Result) No.1	限値 (Limit)
多溴聯苯總和 / Sum of PBBs			-	n.d.	1000
一溴聯苯 / Monobromobiphenyl			5	n.d.	-
二溴聯苯 / Dibromobiphenyl			5	n.d.	_
三溴聯苯 / Tribromobiphenyl			5	n.d.	-
四溴聯苯 / Tetrabromobiphenyl			5	n.d.	-
五溴聯苯 / Pentabromobiphenyl			5	n.d.	-
六溴聯苯 / Hexabromobiphenyl			5	n.d.	-
七溴聯苯 / Heptabromobiphenyl			5	n.d.	-
八溴聯苯 / Octabromobiphenyl			5	n.d.	-
九溴聯苯 / Nonabromobiphenyl		 參考IEC 62321: 2008方法,以氣相層	5	n.d.	-
十溴聯苯 / Decabromobiphenyl	Ī	析/質譜儀檢測. / With reference to	5	n.d.	-
多溴聯苯醚總和 / Sum of PBDEs	mg/kg	IEC 62321: 2008 and performed by	-	n.d.	1000
一溴聯苯醚 / Monobromodiphenyl ether		GC/MS.	5	n.d.	-
二溴聯苯醚 / Dibromodiphenyl ether			5	n.d.	-
三溴聯苯醚 / Tribromodiphenyl ether	1		5	n.d.	-
四溴聯苯醚 / Tetrabromodiphenyl ether	1		5	n.d.	-
五溴聯苯醚 / Pentabromodiphenyl ether	1		5	n.d.	-
六溴聯苯醚 / Hexabromodiphenyl ether	1		5	n.d.	-
七溴聯苯醚 / Heptabromodiphenyl ether	1		5	n.d.	-
八溴聯苯醚 / Octabromodiphenyl ether	1		5	n.d.	-
九溴聯苯醚 / Nonabromodiphenyl ether	1		5	n.d.	-
十溴聯苯醚 / Decabromodiphenyl ether	1		5	n.d.	-

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測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限値 (MDL)	結果 (Result) No.1	限値 (Limit)
有機錫 / Organic-tin compounds					
三丁基錫 / Tributyl Tin (TBT)			0.03	n.d.	-
三苯基錫 / Triphenyl Tin (TphT)		多考ISO 17353方法,以氣相層析儀/火	0.03	n.d.	=
二丁基錫 / Dibutyl Tin (DBT)	/1	焰光度偵測器檢測. / With reference	0.03	n.d.	-
二辛基錫 / Dioctyl Tin (DOT)	mg/kg	to ISO 17353. Analysis was	0.03	n.d.	-
三丁基錫氧化物 / Tributyl Tin Oxide (TBTO)*** (CAS No.: 56-35-9)		performed by GC/FPD.	-	n.d.	-
偶氮 (AZO)					
1): 4-氨基二苯 / 4-AMINODIPHENYL (CAS No.: 92-67-1)	mg/kg	參考LFGB 82.02-2方法,以氣相層析/ 質譜儀檢測. / With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	3	n.d.	-
2): 聯苯胺 / BENZIDINE (CAS No.: 92- 87-5)	mg/kg	參考LFGB 82.02-2方法,以氣相層析/ 質譜儀檢測. / With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	3	n.d.	-
3): 4-氯鄰甲苯胺 / 4-CHLORO-O- TOLUIDINE (CAS No.: 95-69-2)	mg/kg	参考LFGB 82.02-2方法,以氣相層析/ 質譜儀檢測. / With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	3	n.d.	-
4): 2-萘胺 / 2-NAPHTHYLAMINE (CAS No.: 91-59-8)	mg/kg	參考LFGB 82.02-2方法,以氣相層析/ 質譜儀檢測. / With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	3	n.d.	-
5): 鄰氨基二甲基偶氮 / O- AMINOAZOTOLUENE (CAS No.: 97-56-3)	mg/kg	參考LFGB 82.02-2方法,以氣相層析/ 質譜儀檢測. / With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	3	n.d.	-



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測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限値 (MDL)	結果 (Result) No.1	限値 (Limit)
6): 對硝基鄰甲苯胺 / 2-AMINO-4- NITROTOLUENE (CAS No.: 99-55-8)	mg/kg	参考LFGB 82.02-2方法,以氣相層析/ 質譜儀檢測. / With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	3	n.d.	-
7): 對氣苯胺 / P-CHLOROANILINE (CAS No.: 106-47-8)	mg/kg	参考LFGB 82.02-2方法,以氣相層析/ 質譜儀檢測. / With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	3	n.d.	-
8): 4-甲氧基-間苯二胺 / 2,4- DIAMINOANISOLE (CAS No.: 615-05-4)	mg/kg	参考LFGB 82.02-2方法,以氣相層析/ 質譜儀檢測. / With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	3	n.d.	-
9): 4,4'-二氨基二苯甲烷 / 4,4'- DIAMINODIPHENYLMETHANE (CAS No.: 101-77-9)	mg/kg	參考LFGB 82.02-2方法,以氣相層析/ 質譜儀檢測. / With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	3	n.d.	-
10): 3,3'-二氯聯苯胺 / 3,3'- DICHLOROBENZIDINE (CAS No.: 91-94-1)	mg/kg	參考LFGB 82.02-2方法, 以氣相層析/ 質譜儀檢測. / With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	3	n.d.	-
11): 3,3'-二甲氧基聯苯胺 / 3,3'- DIMETHOXYBENZIDINE (CAS No.: 119-90- 4)	mg/kg	參考LFGB 82.02-2方法,以氣相層析/ 質譜儀檢測. / With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	3	n.d.	-
12): 3,3'-二甲基聯苯胺 / 3,3'- DIMETHYLBENZIDINE (CAS No.: 119-93- 7)	mg/kg	參考LFGB 82.02-2方法,以氣相層析/ 質譜儀檢測. / With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	3	n.d.	-

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測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限値 (MDL)	結果 (Result) No.1	限値 (Limit)
13): 3,3'-二甲基-4,4'-二氨基二苯甲烷 / 3,3'-DIMETHYL-4,4'- DIAMINODIPHENYLMETHANE (CAS No.: 838-88-0)	mg/kg	參考LFGB 82.02-2方法,以氣相層析/ 質譜儀檢測. / With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	3	n.d.	-
14): 2-甲氧基-5-甲基聯苯 / P- CRESIDINE (2-METHOXY-5- METHYLANILINE) (CAS No.: 120-71-8)	mg/kg	參考LFGB 82.02-2方法,以氣相層析/ 質譜儀檢測. / With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	3	n.d.	-
15): 4,4'-亞甲基雙(氣苯胺)/ 4,4'- METHYLENE-BIS- (2-CHLOROANILINE) (CAS No.: 101-14-4)	mg/kg	參考LFGB 82.02-2方法,以氣相層析/ 質譜儀檢測. / With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	3	n.d.	-
16): 4,4'-氧化雙苯胺 / 4,4'- OXYDIANILINE (CAS No.: 101-80-4)	mg/kg	參考LFGB 82.02-2方法,以氣相層析/ 質譜儀檢測. / With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	3	n.d.	-
17): 4,4'-硫代雙苯胺 / 4,4'- THIODIANILINE (CAS No.: 139-65-1)	mg/kg	參考LFGB 82.02-2方法,以氣相層析/ 質譜儀檢測./ With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	3	n.d.	-
18): 鄰甲苯胺 / O-TOLUIDINE (CAS No.: 95-53-4)	mg/kg	參考LFGB 82.02-2方法,以氣相層析/ 質譜儀檢測. / With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	3	n.d.	-
19): 2,4-二氨基甲苯 / 2,4- TOLUYLENEDIAMINE (CAS No.: 95-80-7)	mg/kg	参考LFGB 82.02-2方法,以氣相層析/ 質譜儀檢測. / With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	3	n.d.	-



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測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限値	結果 (Result) No.1	限値 (Limit)
	(Onit)	(method)	(MDL)		(Limit)
20): 2,4,5-三甲基苯胺 / 2,4,5- TRIMETHYLANILINE (CAS No.: 137-17-7)	mg/kg	參考LFGB 82.02-2方法,以氣相層析/ 質譜儀檢測. / With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	3	n.d.	-
21): 鄰位甲氧基苯胺 / O-ANISIDINE (CAS No.: 90-04-0)	mg/kg	參考LFGB 82.02-2方法,以氣相層析/ 質譜儀檢測. / With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	3	n.d.	-
22): 對氨基偶氮苯 / 4- AMINOAZOBENZENE (CAS No.: 60-09-3)	mg/kg	參考LFGB 82.02-2方法,以氣相層析/ 質譜儀檢測. / With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	3	n.d.	-
23): 2,4-二甲基苯胺 / 2,4-XYLIDINE (CAS No.: 95-68-1)	mg/kg	参考LFGB 82.02-2方法,以氣相層析/ 質譜儀檢測. / With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	3	n.d.	-
24): 2,6-二甲基苯胺 / 2,6-XYLIDINE (CAS No.: 87-62-7)	mg/kg	参考LFGB 82.02-2方法,以氣相層析/ 質譜儀檢測. / With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	3	n.d.	-
氫氟碳化物 / HFCs (Hydrofluorocarbon)					
氫氟碳化物 (HFC)-23 (CHF3) (CAS No.: 75-46-7)	mg/kg	參考US EPA 5021方法,以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-



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(廣東省惠州市博羅縣石灣鎮永石大道 / YONGSHI BOULEVARD SHIWAN TOWN BOLUO COUNTY HUIZHOU CITY GUANG DONG)

測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限値 (MDL)	結果 (Result) No.1	限值 (Limit)
氫氟碳化物 (HFC)-32 (CH2F2) (CAS No.: 75-10-5)	mg/kg	參考US EPA 5021方法,以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
氫氟碳化物 (HFC)-41 (CH3F) (CAS No.: 593-53-3)	mg/kg	参考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
氫氟碳化物 (HFC)-43-10mee (C5H2F10)	mg/kg	參考US EPA 5021方法,以氣相層析/質譜儀檢測./With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
氫氟碳化物 (HFC)-125 (C2HF5)	mg/kg	參考US EPA 5021方法,以氣相層析/質譜儀檢測./With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
氫氟碳化物 (HFC)-134 (C2H2F4)	mg/kg	參考US EPA 5021方法,以氣相層析/質譜儀檢測./With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
氫氟碳化物 (HFC)-134a (CH2FCF3) (CAS No.: 811-97-2)	mg/kg	參考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
氫氟碳化物 (HFC)-143 (CH3F3)	mg/kg	參考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-

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測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限値 (MDL)	結果 (Result) No.1	限値 (Limit)
氫氟碳化物 (HFC)-143a (CH3F3)	mg/kg	參考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
氫氟碳化物 (HFC)-152a (C2H4F2) (CAS No.: 75-37-6)	mg/kg	参考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
氫氟碳化物 (HFC)-227ea (C3HF7) (CAS No.: 431-89-0)	mg/kg	參考US EPA 5021方法,以氣相層析/質譜儀檢測./With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
氫氟碳化物 (HFC)-236fa (C3H2F6)	mg/kg	參考US EPA 5021方法,以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
氫氟碳化物 (HFC)-236ea (C3H2F6) (CAS No.: 431-63-0)	mg/kg	參考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	1
氫氟碳化物 (HFC)-245ca (C3H3F5)	mg/kg	參考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
氫氟碳化物 (HFC)-245fa (C3H3F5)	mg/kg	參考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-



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測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限値 (MDL)	結果 (Result) No.1	限値 (Limit)
氫氟碳化物 (HFC)-365mfc (C4H5F5)	mg/kg	參考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
全氟碳化物 / PFCs (Perfluorocarbon)					
四氟甲烷 / F14 (CAS No.: 75-73-0)	mg/kg	參考US EPA 5021方法,以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
六氟乙烷 / Fluorocarbon 116 (CAS No.: 76-16-4)	mg/kg	參考US EPA 5021方法,以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
八氟丙烷 / Freon 218 (CAS No.: 76- 19-7)	mg/kg	參考US EPA 5021方法,以氣相層析/質譜儀檢測./With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
十氟丁烷 / Decafluorobutane (CAS No.: 355-25-9)	mg/kg	參考US EPA 5021方法,以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
八氟環丁烷 / Freon C318 (CAS No.: 115-25-3)	mg/kg	参考US EPA 5021方法,以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
全氟-1-丁烯 / Perfluor-1-butene (CAS No.: 357-26-6)	mg/kg	參考US EPA 5021方法,以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-



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測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限値 (MDL)	結果 (Result) No.1	限値 (Limit)
全氟異丁烯 / perfluorisobutene (CAS No.: 382-21-8)	mg/kg	參考US EPA 5021方法,以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
1,4-二氫八氟丁烷 / 1,4- dihydrooctafluorobutane (CAS No.: 377-36-6)	mg/kg	參考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
2-全氟甲基丁烷 / nonafluor-2- (trifluoromethyl)butane (CAS No.: 594-91-2)	mg/kg	參考US EPA 5021方法,以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
全氟戊烷 / perfluoro-n-pentane (CAS No.: 678-26-2)	mg/kg	參考US EPA 5021方法,以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
2-全氟甲基戊烷 / 2- perfluoromethylpentane (CAS No.: 355-04-4)	mg/kg	參考US EPA 5021方法,以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
全氟己烷 / perfluorohexane (CAS No.: 355-42-0)	mg/kg	參考US EPA 5021方法,以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-



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南亞塑膠工業股份有限公司(台灣) / NAN YA PLASTICS CORPORATION (TAIWAN) (南亞電子材料(昆山)有限公司 / NAN YA ELECTRONIC MATERIALS (KUNSHAN) CORP., LTD) (南亞電子材料(惠州)有限公司 / NAN YA ELECTRONIC MATERIALS (HUIZHOU) CORP., LTD) 台灣台北市敦化北路201號 / 201 TUNG HWA NORTH ROAD, TAIPEI, TAIWAN

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測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限値 (MDL)	結果 (Result) No.1	限値 (Limit)
氟氯碳化物 / CFCs (Chlorofluorocarbons)					
Group I					
氟氯碳化物 (Chlorofluorocarbon)-11 (CAS No.: 75-69-4)	mg/kg	参考US EPA 5021方法,以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
氟氯碳化物 (Chlorofluorocarbon)-12 (CAS No.: 75-71-8)	mg/kg	參考US EPA 5021方法,以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
氟氯碳化物 (Chlorofluorocarbon)-113 (CAS No.: 76-13-1)	mg/kg	参考US EPA 5021方法,以氣相層析/質譜儀檢測./With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
氟氯碳化物 (Chlorofluorocarbon)-114 (CAS No.: 76-14-2)	mg/kg	参考US EPA 5021方法,以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
氟氯碳化物 (Chlorofluorocarbon)-115 (CAS No.: 76-15-3)	mg/kg	參考US EPA 5021方法,以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
Group III					
氟氯碳化物 (Chlorofluorocarbon)-13 (CAS No.: 75-72-9)	mg/kg	参考US EPA 5021方法,以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-



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測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限値 (MDL)	結果 (Result) No.1	限値 (Limit)
氟氯碳化物 (Chlorofluorocarbon)-111 (CAS No.: 354-56-3)	mg/kg	參考US EPA 5021方法,以氣相層析/質譜儀檢測./With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
氟氯碳化物 (Chlorofluorocarbon)-112 (CAS No.: 76-12-0)	mg/kg	參考US EPA 5021方法,以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
氟氯碳化物 (Chlorofluorocarbon)-211 (CAS No.: 422-78-6)	mg/kg	參考US EPA 5021方法,以氣相層析/質譜儀檢測./With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
氟氯碳化物 (Chlorofluorocarbon)-212 (CAS No.: 3182-26-1)	mg/kg	參考US EPA 5021方法,以氣相層析/質譜儀檢測./With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
氟氯碳化物 (Chlorofluorocarbon)-213 (CAS No.: 2354-06-5)	mg/kg	參考US EPA 5021方法,以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
氟氯碳化物 (Chlorofluorocarbon)-214 (CAS No.: 29255-31-0)	mg/kg	参考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
氟氯碳化物 (Chlorofluorocarbon)-215 (CAS No.: 4259-43-2)	mg/kg	參考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-

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測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限値 (MDL)	結果 (Result) No.1	限値 (Limit)
氟氯碳化物 (Chlorofluorocarbon)-216 (CAS No.: 661-97-2)	mg/kg	參考US EPA 5021方法,以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
氟氯碳化物 (Chlorofluorocarbon)-217 (CAS No.: 422-86-6)	mg/kg	參考US EPA 5021方法,以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
氟氯氫碳化物 / HCFCs (Hydrochlorofluorocarbons)					
氟氯氫碳化物 (HCFC)-21 (CAS No.: 75-43-4)	mg/kg	参考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
氟氯氫碳化物 (HCFC)-22 (CAS No.: 75-45-6)	mg/kg	参考US EPA 5021方法,以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
氟氯氫碳化物 (HCFC)-31 (CAS No.: 593-70-4)	mg/kg	參考US EPA 5021方法,以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
氟氯氫碳化物 (HCFC)-121 (CAS No.: 354-14-3)	mg/kg	參考US EPA 5021方法,以氣相層析/質譜儀檢測./With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-

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南亞塑膠工業股份有限公司(台灣) / NAN YA PLASTICS CORPORATION (TAIWAN) (南亞電子材料(昆山)有限公司 / NAN YA ELECTRONIC MATERIALS (KUNSHAN) CORP., LTD) (南亞電子材料(惠州)有限公司 / NAN YA ELECTRONIC MATERIALS (HUIZHOU) CORP., LTD)

台灣台北市敦化北路201號 / 201 TUNG HWA NORTH ROAD, TAIPEI, TAIWAN

(江蘇省昆山昆山市長江南路201號 / 201 CHANG JIANG ROAD(S) KUNSHAN ECONOMIC & TECHNICAL DEVELOPMENT ZONE, JIANG SU)

(廣東省惠州市博羅縣石灣鎮永石大道 / YONGSHI BOULEVARD SHIWAN TOWN BOLUO COUNTY HUIZHOU CITY GUANG DONG)

測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限値 (MDL)	結果 (Result) No.1	限値 (Limit)
氟氯氫碳化物 (HCFC)-122 (CAS No.: 354-21-2)	mg/kg	參考US EPA 5021方法,以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
氟氯氫碳化物 (HCFC)-123 (CAS No.: 306-83-2)	mg/kg	參考US EPA 5021方法,以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
氟氯氫碳化物 (HCFC)-124 (CAS No.: 2837-89-0)	mg/kg	參考US EPA 5021方法,以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
氟氯氫碳化物 (HCFC)-131 (CAS No.: 359-28-4)	mg/kg	參考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
氟氯氫碳化物 (HCFC)-132b (CAS No.: 1649-08-7)	mg/kg	参考US EPA 5021方法,以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
氟氯氫碳化物 (HCFC)-133a (CAS No.: 75-88-7)	mg/kg	參考US EPA 5021方法,以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
氟氯氫碳化物 (HCFC)-141b (CAS No.: 1717-00-6)	mg/kg	參考US EPA 5021方法,以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-

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南亞塑膠工業股份有限公司(台灣) / NAN YA PLASTICS CORPORATION (TAIWAN)

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測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限値 (MDL)	結果 (Result) No.1	限値 (Limit)
氟氯氫碳化物 (HCFC)-142b (CAS No.: 75-68-3)	mg/kg	參考US EPA 5021方法,以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
氟氯氫碳化物 (HCFC)-221 (CAS No.: 422-26-4)	mg/kg	參考US EPA 5021方法,以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
氟氯氫碳化物 (HCFC)-222 (CAS No.: 422-49-1)	mg/kg	參考US EPA 5021方法,以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
氟氯氫碳化物 (HCFC)-223 (CAS No.: 422-52-6)	mg/kg	參考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
氟氯氫碳化物 (HCFC)-224 (CAS No.: 422-54-8)	mg/kg	参考US EPA 5021方法,以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
氟氯氫碳化物 (HCFC)-225ca (CAS No.: 422-56-0)	mg/kg	參考US EPA 5021方法,以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
氟氯氫碳化物 (HCFC)-225cb (CAS No.: 507-55-1)	mg/kg	參考US EPA 5021方法,以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-

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測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限値 (MDL)	結果 (Result) No.1	限値 (Limit)
氟氯氫碳化物 (HCFC)-226 (CAS No.: 431-87-8)	mg/kg	參考US EPA 5021方法,以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
氟氯氫碳化物 (HCFC)-231 (CAS No.: 421-94-3)	mg/kg	參考US EPA 5021方法,以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
氟氯氫碳化物 (HCFC)-232 (CAS No.: 460-89-9)	mg/kg	參考US EPA 5021方法,以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
氟氯氫碳化物 (HCFC)-233 (CAS No.: 7125-84-0)	mg/kg	參考US EPA 5021方法,以氣相層析/質譜儀檢測./With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
氟氯氫碳化物 (HCFC)-234 (CAS No.: 425-94-5)	mg/kg	參考US EPA 5021方法,以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
氟氯氫碳化物 (HCFC)-235 (CAS No.: 460-92-4)	mg/kg	參考US EPA 5021方法,以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
氟氯氫碳化物 (HCFC)-241 (CAS No.: 666-27-3)	mg/kg	參考US EPA 5021方法,以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-



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測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限値 (MDL)	結果 (Result) No.1	限値 (Limit)
氟氯氫碳化物 (HCFC)-242 (CAS No.: 460-63-9)	mg/kg	参考US EPA 5021方法,以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
氟氯氫碳化物 (HCFC)-243 (CAS No.: 460-69-5)	mg/kg	參考US EPA 5021方法,以氣相層析/質譜儀檢測./ With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
氟氯氫碳化物 (HCFC)-244	mg/kg	参考US EPA 5021方法,以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
氟氯氫碳化物 (HCFC)-251 (CAS No.: 421-41-0)	mg/kg	参考US EPA 5021方法,以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
氟氯氫碳化物 (HCFC)-252 (CAS No.: 819-00-1)	mg/kg	参考US EPA 5021方法,以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
氟氯氫碳化物 (HCFC)-253 (CAS No.: 460-35-5)	mg/kg	參考US EPA 5021方法,以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
氟氯氫碳化物 (HCFC)-261 (CAS No.: 420-97-3)	mg/kg	参考US EPA 5021方法,以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-



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測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限値 (MDL)	結果 (Result) No.1	限値 (Limit)
氟氯氫碳化物 (HCFC)-262 (CAS No.: 421-02-03)	mg/kg	参考US EPA 5021方法,以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
氟氯氫碳化物 (HCFC)-271 (CAS No.: 430-55-7)	mg/kg	参考US EPA 5021方法,以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
海龍 (Halons) 海龍 (Halon)-1211 (CAS No.: 353-59- 3)	mg/kg	参考US EPA 5021方法,以氣相層析/質譜儀檢測./ With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
海龍 (Halon)-1301 (CAS No.: 75-63-8)	mg/kg	参考US EPA 5021方法,以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
海龍 (Halon)-2402 (CAS No.: 124-73-2)	mg/kg	参考US EPA 5021方法,以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-



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南亞塑膠工業股份有限公司(台灣) / NAN YA PLASTICS CORPORATION (TAIWAN) (南亞電子材料(昆山)有限公司 / NAN YA ELECTRONIC MATERIALS (KUNSHAN) CORP., LTD) (南亞電子材料(惠州)有限公司 / NAN YA ELECTRONIC MATERIALS (HUIZHOU) CORP., LTD) 台灣台北市敦化北路201號 / 201 TUNG HWA NORTH ROAD, TAIPEI, TAIWAN

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測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限値 (MDL)	結果 (Result) No.1	限值 (Limit)
不完全鹵化氟溴化物 / HBFCs (Hydrobromofluorocarbons)					
不完全鹵化氟溴化物 (HBFC)-21B2 (CHFBr2) (CAS No.: 1868-53-7)	mg/kg	参考US EPA 5021方法,以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
不完全鹵化氟溴化物 (HBFC)-22B1 (CHF2Br) (CAS No.: 1511-62-2)	mg/kg	參考US EPA 5021方法,以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
不完全鹵化氣溴化物 (HBFC)-31B1 (CH2FBr) (CAS No.: 373-52-4)	mg/kg	参考US EPA 5021方法,以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
不完全鹵化氟溴化物 (HBFC)-121B4 (C2HFBr4)	mg/kg	參考US EPA 5021方法,以氣相層析/質譜儀檢測./With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
不完全鹵化氟溴化物 (HBFC)-122B3 (C2HF2Br3)	mg/kg	參考US EPA 5021方法,以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
不完全鹵化氟溴化物 (HBFC)-123B2 (C2HF3Br2)	mg/kg	參考US EPA 5021方法,以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-



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測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限値 (MDL)	結果 (Result) No.1	限値 (Limit)
不完全鹵化氟溴化物 (HBFC)-124B1 (C2HF4Br)	mg/kg	參考US EPA 5021方法,以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
不完全鹵化氟溴化物 (HBFC)-131B3 (C2H2FBr3)	mg/kg	參考US EPA 5021方法,以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
不完全鹵化氟溴化物 (HBFC)-132B2 (C2H2F2Br2)	mg/kg	參考US EPA 5021方法,以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
不完全鹵化氟溴化物 (HBFC)-133B1 (C2H2F3Br)	mg/kg	參考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
不完全鹵化氟溴化物 (HBFC)-141B2 (C2H3FBr2)	mg/kg	参考US EPA 5021方法,以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
不完全鹵化氟溴化物 (HBFC)-142B1 (C2H3F2Br)	mg/kg	參考US EPA 5021方法,以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
不完全鹵化氟溴化物 (HBFC)-151B1 (C2H4FBr)	mg/kg	參考US EPA 5021方法,以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-



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Test Report

南亞塑膠工業股份有限公司(台灣) / NAN YA PLASTICS CORPORATION (TAIWAN) (南亞電子材料(昆山)有限公司 / NAN YA ELECTRONIC MATERIALS (KUNSHAN) CORP., LTD) (南亞電子材料(惠州)有限公司 / NAN YA ELECTRONIC MATERIALS (HUIZHOU) CORP., LTD)

台灣台北市敦化北路201號 / 201 TUNG HWA NORTH ROAD, TAIPEI, TAIWAN (江蘇省昆山昆山市長江南路201號 / 201 CHANG JIANG ROAD(S) KUNSHAN ECONOMIC & TECHNICAL DEVELOPMENT ZONE,

(廣東省惠州市博羅縣石灣鎮永石大道 / YONGSHI BOULEVARD SHIWAN TOWN BOLUO COUNTY HUIZHOU CITY GUANG DONG)

測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限値 (MDL)	結果 (Result) No.1	限値 (Limit)
不完全鹵化氟溴化物 (HBFC)-221B6 (C3HFBr6)	mg/kg	參考US EPA 5021方法,以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
不完全鹵化氟溴化物 (HBFC)-222B5 (C3HF2Br5)	mg/kg	參考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
不完全鹵化氟溴化物 (HBFC)-223B4 (C3HF3Br4)	mg/kg	參考US EPA 5021方法,以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
不完全鹵化氟溴化物 (HBFC)-224B3 (C3HF4Br3)	mg/kg	參考US EPA 5021方法,以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
不完全鹵化氟溴化物 (HBFC)-225B2 (C3HF5Br2)	mg/kg	参考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
不完全鹵化氣溴化物 (HBFC)-226B1 (C3HF6Br)	mg/kg	參考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	1
不完全鹵化氟溴化物 (HBFC)-231B5 (C3H2FBr5)	mg/kg	参考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-

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(南亞電子材料(惠州)有限公司 / NAN YA ELECTRONIC MATERIALS (HUIZHOU) CORP., LTD)

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(廣東省惠州市博羅縣石灣鎮永石大道 / YONGSHI BOULEVARD SHIWAN TOWN BOLUO COUNTY HUIZHOU CITY GUANG DONG)

測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限値 (MDL)	結果 (Result) No.1	限値 (Limit)
不完全鹵化氟溴化物 (HBFC)-232B4 (C3H2F2Br4)	mg/kg	參考US EPA 5021方法,以氣相層析/質譜儀檢測./With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
不完全鹵化氟溴化物 (HBFC)-233B3 (C3H2F3Br3)	mg/kg	參考US EPA 5021方法,以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
不完全鹵化氟溴化物 (HBFC)-234B2 (C3H2F4Br2)	mg/kg	參考US EPA 5021方法,以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
不完全鹵化氣溴化物 (HBFC)-235B1 (C3H2F5Br)	mg/kg	參考US EPA 5021方法,以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
不完全鹵化氣溴化物 (HBFC)-241B4 (C3H3FBr4)	mg/kg	參考US EPA 5021方法,以氣相層析/質譜儀檢測./With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
不完全鹵化氟溴化物 (HBFC)-242B3 (C3H3F2Br3)	mg/kg	參考US EPA 5021方法,以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
不完全鹵化氟溴化物 (HBFC)-243B2 (C3H3F3Br2)	mg/kg	參考US EPA 5021方法,以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-



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測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限値 (MDL)	結果 (Result) No.1	限値 (Limit)
不完全鹵化氟溴化物 (HBFC)-244B1 (C3H3F4Br)	mg/kg	參考US EPA 5021方法,以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
不完全鹵化氟溴化物 (HBFC)-251B3 (C3H4FBr3)	mg/kg	參考US EPA 5021方法,以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
不完全鹵化氟溴化物 (HBFC)-252B2 (C3H4F2Br2)	mg/kg	參考US EPA 5021方法,以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
不完全鹵化氟溴化物 (HBFC)-253B1 (C3H4F3Br)	mg/kg	參考US EPA 5021方法,以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
不完全鹵化氟溴化物 (HBFC)-261B2 (C3H5FBr2)	mg/kg	参考US EPA 5021方法,以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
不完全鹵化氟溴化物 (HBFC)-262B1 (C3H5F2Br)	mg/kg	參考US EPA 5021方法,以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
不完全鹵化氟溴化物 (HBFC)-271B1 (C3H6FBr)	mg/kg	參考US EPA 5021方法,以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-



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測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限値 (MDL)	結果 (Result) No.1	限值 (Limit)
氯化碳氫化物 / CHCs (Chlorinate hydrocarbon)					
1,1,1,2-四氯乙烷 / 1,1,1,2- Tetrachloroethane (CAS No.: 630-20- 6)	mg/kg	参考US EPA 5021方法,以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
1,1,1-三氯乙烷 / 1,1,1- Trichloroethane (CAS No.: 71-55-6)	mg/kg	參考US EPA 5021方法,以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
1,1,2,2-四氯乙烷 / 1,1,2,2- Tetrachloroethane (CAS No.: 79-34-5)	mg/kg	参考US EPA 5021方法,以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
1,1,2-三氯乙烷 / 1,1,2- Trichloroethane (CAS No.: 79-00-5)	mg/kg	參考US EPA 5021方法,以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
1,1-二氯乙烷 / 1,1-Dichloroethane (CAS No.: 75-34-3)	mg/kg	參考US EPA 5021方法,以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
1,1-二氯乙烯 / 1,1-Dichloroethene (CAS No.: 75-35-4)	mg/kg	參考US EPA 5021方法,以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-



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測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限値 (MDL)	結果 (Result) No.1	限值 (Limit)
1,1-二氯丙烯 / 1,1-Dichloropropene (CAS No.: 563-58-6)	mg/kg	參考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
1,2,3-三氯丙烷 / 1,2,3- Trichloropropane (CAS No.: 96-18-4)	mg/kg	参考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
1,2-二氯乙烷 / 1,2-Dichloroethane (CAS No.: 107-06-2)	mg/kg	參考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
1,2-二氯丙烷 / 1,2-Dichloropropane (CAS No.: 78-87-5)	mg/kg	參考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
1,3-二氯丙烷 / 1,3-Dichloropropane (CAS No.: 142-28-9)	mg/kg	參考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	1
2,2-二氯丙烷 / 2,2-Dichloropropane (CAS No.: 594-20-7)	mg/kg	參考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
四氯甲烷 (四氯化碳) / Carbon tetrachloride (CAS No.: 56-23-5)	mg/kg	参考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-

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測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限値 (MDL)	結果 (Result) No.1	限値 (Limit)
氯乙烷 / Chloroethane (CAS No.: 75-00-3)	mg/kg	參考US EPA 5021方法,以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
氯仿 / Chloroform (CAS No.: 67-66-3)	mg/kg	参考US EPA 5021方法,以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
氯甲烷 / Chloromethane (CAS No.: 74-87-3)	mg/kg	參考US EPA 5021方法,以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
順-1,2-二氯乙烯 / cis-1,2- Dichloroethene (CAS No.: 156-59-2)	mg/kg	参考US EPA 5021方法,以氣相層析/質譜儀檢測./With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
順-1,3-二氯丙烯 / cis-1,3- Dichloropropene (CAS No.: 10061-01- 5)	mg/kg	參考US EPA 5021方法,以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
六氯丁二烯 / Hexachlorobutadiene (CAS No.: 87-68-3)	mg/kg	參考US EPA 5021方法,以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
二氯甲烷 / Dichloromethane (CAS No.: 75-09-2)	mg/kg	參考US EPA 5021方法,以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-



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測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限値 (MDL)	結果 (Result) No.1	限値 (Limit)
四氯乙烯 / Tetrachloroethene (CAS No.: 127-18-4)	mg/kg	参考US EPA 5021方法, 以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
反-1,2-二氯乙烯 / trans-1,2- Dichloroethene (CAS No.: 156-60-5)	mg/kg	参考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
反-1,3-二氯丙烯 / trans-1,3- Dichloropropene (CAS No.: 10061-02- 6)	mg/kg	参考US EPA 5021方法,以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
三氯乙烯 / Trichloroethylene (CAS No.: 79-01-6)	mg/kg	參考US EPA 5021方法,以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
石綿 / Asbestos					
陽起石綿 / Actinolite (CAS No.: 77536-66-4)		参考EPA 600/R-93/116 / 立體顯微鏡(SM),分散染色式偏光顯微鏡(DS-PLM)及X光繞射光譜分析法(XRD) / With reference to EPA 600/R-93/116 method. Analysis was performed by Stereo Microscope (SM), Dispersion Staining Polarized Light Microscope (DS-PLM) and X-ray Diffraction Spectrometer (XRD).	-	Negative	-
鐵石綿(褐石綿) / Amosite (CAS No.: 12172-73-5)			-	Negative	-
斜方角閃石綿 / Anthophyllite (CAS No.: 77536-67-5)	- % -		-	Negative	-
溫石綿(白石綿) / Chrysotile (CAS No.: 12001-29-5)			-	Negative	-
青石綿 / Crocidolite (CAS No.: 12001-28-4)			-	Negative	-
透閃石綿 / Tremolite (CAS No.: 77536-68-6)			ı	Negative	1

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(廣東省惠州市博羅縣石灣鎮永石大道 / YONGSHI BOULEVARD SHIWAN TOWN BOLUO COUNTY HUIZHOU CITY GUANG DONG)

測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限値 (MDL)	結果 (Result) No.1	限値 (Limit)
多環芳香煙 / Polynuclear Aromatic Hydrocarbons (PAHs)					
苊 / Acenaphthene (CAS No.: 83-32-9)	mg/kg		0.2	n.d.	-
苊烯 / Acenaphthylene (CAS No.: 208-96- 8)	mg/kg		0.2	n.d.	-
蒽 / Anthracene (CAS No.: 120-12-7)	mg/kg		0.2	n.d.	-
苯駢蒽 / Benzo[a]anthracene (CAS No.: 56-55-3)	mg/kg		0.2	n.d.	-
苯駢(a)芘 / Benzo[a]pyrene (CAS No.: 50- 32-8)	mg/kg		0.2	n.d.	-
苯(b)苯駢芴 / Benzo[b]fluoranthene (CAS No.: 205-99-2)	mg/kg		0.2	n.d.	-
苯駢菲 / Benzo[g,h,i]perylene (CAS No.: 191-24-2)	mg/kg		0.2	n.d.	-
苯(k)苯駢芴 / Benzo[k]fluoranthene (CAS No.: 207-08-9)	mg/kg	參考ZLS standard ZEK 01.4-08方法,	0.2	n.d.	-
Chrysene (CAS No.: 218-01-9)	mg/kg	以氣相層析/質譜儀檢測. / With	0.2	n.d.	-
二苯駢蒽 / Dibenzo[a,h]anthracene (CAS No.: 53-70-3)	mg/kg	reference to ZLS standard ZEK 01.4–08 method. Analysis was	0.2	n.d.	-
苯駢芴 / Fluoranthene (CAS No.: 206-44-0)	mg/kg	performed by GC/MS.	0.2	n.d.	-
芴 / Fluorene (CAS No.: 86-73-7)	mg/kg		0.2	n.d.	-
茚酮芘 / Indeno[1,2,3-c,d] pyrene (CAS No.: 193-39-5)	mg/kg		0.2	n.d.	-
萘 / Naphthalene (CAS No.: 91-20-3)	mg/kg		0.2	n.d.	-
菲 / Phenanthrene (CAS No.: 85-01-8)	mg/kg		0.2	n.d.	-
芘 / Pyrene (CAS No.: 129-00-0)	mg/kg		0.2	n.d.	-
苯(j)苯駢芴 / Benzo[j]fluoranthene (CAS No.: 205-82-3)	mg/kg		0.2	n.d.	-
苯駢(e)芘 / Benzo[e]pyrene (CAS No.: 192-97-2)	mg/kg		0.2	n.d.	-
多環芳香烴18項總和 / Sum of 18 PAHs	mg/kg		-	n.d.	-

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備註(Note):

- 1. mg/kg = ppm ; 0.1wt% = 1000ppm
- 2. n.d. = Not Detected (未檢出)
- 3. MDL = Method Detection Limit (方法偵測極限值)
- 4. "-" = Not Regulated (無規格值)
- 5. **= Qualitative analysis (No Unit) 定性分析(無單位)
- 6. Negative = Undetectable 陰性(未偵測到); Positive = Detectable 陽性(已偵測到)
- 7. 石綿定性分析試驗範圍: <0.1%~100%,石綿鑑定的判定基準是以檢出含有石綿纖維為『Positive』,未檢出石綿纖維為『Negative』。/ Testing range of asbestos qualitative analysis is from less than 0.1% to 100%. The judgment criterion: asbestos fibers being found is shown as "Positive"; asbestos fibers not being found is shown as "Negative".
- 8. ***: 該物質是由三丁基錫, 砷, 硼或鈹各别之測試結果計算得知. 其MDL是針對三丁基錫, 砷, 硼或鈹之評估. (The substance was calculated by the test results of Tributyl Tin, Arsenic, Boron or Beryllium respectively.)

 The MDL was evaluated for Tributyl Tin, Arsenic, Boron or Beryllium respectively.)
- 9. (*2): 水合硼酸鈉: 依照歐洲化學總署解釋以無水四硼酸二鈉數據作爲代表(歐洲化學總署回信編號 Ref no.: INC 000000032519) / Tetraboron disodium heptaoxide, hydrate: Only anhydrous form of disodium tetraborate is relevant and considered according to ECHA explanation (Ref no.: INC 000000032519).
- 10. (※2): 被萃取出的溶出硼/砷是以感應耦合電漿原子發射光譜儀檢測得之. / The extracted soluble Boron / Arsenic are detected by ICP-AES.
- 11. 參數換算表 / Parameter Conversion Table:
 Please refer to http://twap.sgs.com/sgsrsts/chn/download-REACH_tw.asp
- 12. 鈹青銅是一種主要成份爲鈹及銅的合金,當偵測不到總鈹含量時,亦表示不含鈹青銅. (Since beryllium copper is a metal alloy of copper and beryllium and the test result is n.d. for beryllium, we can have conclusion that the beryllium copper is n.d..)

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PAHs 参考資料 (Reference information):

依據ZEK 01.4-08之要求:產品中最大值為

(Requirement of ZEK 01.4-08: Restraining maximum values for products)

項目 (Parameter)	第1類 (Category 1)	第2類 (Category 2)	第3類 (Category 3)
	意圖放入嘴内的材料或與	可預見與皮膚接觸逾30秒	可預見與皮膚接觸短於30
	36個月以下的幼兒皮膚有	(長期與皮膚接觸), 以及	秒(短期與皮膚接觸),以
	所接觸的玩具.	不屬於第1類的材料.	及不屬於第1類或第2類的
	(Material indented to	(Materials not falling	材料. (Materials not
	be put in the mouth or	under category 1 with	falling under category
	toys for children aged	foreseeable contact to	1 or 2 with foreseeable
	< 36 months with	skin for longer than 30	contact to skin for
	intended skin contact.)	seconds (long-term skin	less than 30 seconds
		contact).)	(short-term skin
			contact).)
苯駢(a)芘	ZNDI (Z0 0)**	1	0.0
Benzo(a)pyrene (mg/kg)	<mdl (<0.2)**<="" td=""><td>1</td><td>20</td></mdl>	1	20
18項PAH總濃度			
(Sum of 18 PAH)	<mdl (<0.2)**<="" td=""><td>10</td><td>200</td></mdl>	10	200
(mg/kg)*			

注意(Remark):

(Only PAH substances >0.2 mg/kg are taken into account while calculating the sum of PAHs.)

** = 最大濃度值超出等級一的限制,但在等級二的濃度限制值内時,可能需要確認測試材質是否適用於與食品或與口腔黏膜接觸,並依照EN 1186 ff. and \S 64 LFBG 80.30-1方法,針對特定PAH的遷移測試進行測試。遷移測試的結論需依照食品規範評估。

(If the limits of category 1 are surpassed but the limits of category 2 still met, the confirmation of suitability of contact with foodstuff or the oral mucosa can be verified by an additional specific migration test of the PAH components according to EN 1186 ff. and § 64 LFBG 80.30-1. The results of the migration test shall be evaluated according to law criteria for foodstuff.)

^{* =} PAH濃度大於0.2mg/kg時,則須計算PAH總濃度值.



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PFOS参考資訊(Reference Information): 持久性有機污染物 POPs - (EU) 757/2010

PFOS濃度在物質或製備中不得超過0.001%(10ppm),在半成品、成品或零部件中不得超過0.1%(1000ppm),在紡織品或塗層材料中不得超過 $1\mu g/m^2$ 。

(Outlawing PFOS as substances or preparations in concentrations above 0.001% (10ppm), in semi-finished products or articles or parts at a level above 0.1%(1000ppm), in textiles or other coated materials above $1\mu g/m^2$.)



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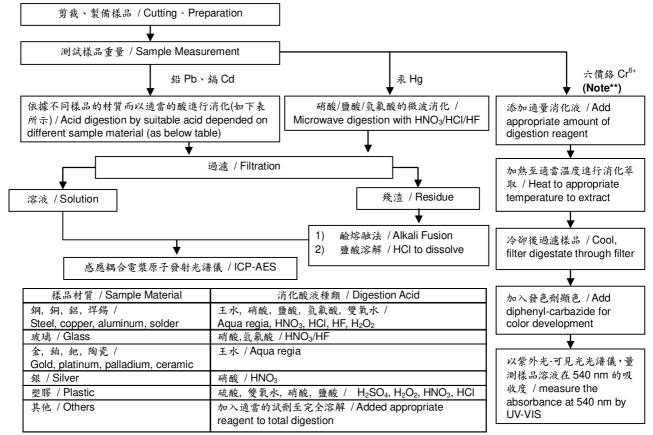
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- 1) 根據以下的流程圖之條件,樣品已完全溶解。(六價鉻測試方法除外) / These samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr^{6+} test method excluded)
- 測試人員:楊登偉 / Name of the person who made measurement: Climbgreat Yang
- 測試負責人: 張啓興 / Name of the person in charge of measurement: Troy Chang



Note** (For IEC 62321)

- (1) 針對非金屬材料加入鹼性消化液,加熱至 90~95℃萃取. / For non-metallic material, add alkaline digestion reagent and heat to
- (2) 針對金屬材料加入純水,加熱至沸騰萃取. / For metallic material, add pure water and heat to boiling.



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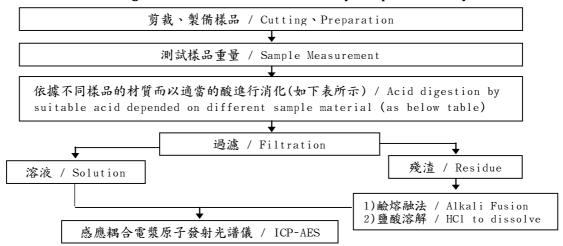
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- 1) 根據以下的流程圖之條件,樣品已完全溶解。 / These samples were dissolved totally by pre-conditioning method according to below flow chart.
- 2) 測試人員:楊登偉 / Name of the person who made measurement: Climbgreat Yang
- 3) 測試負責人:張啓興 / Name of the person in charge of measurement: Troy Chang

元素以 ICP-AES 分析的消化流程圖

(Flow Chart of digestion for the elements analysis performed by ICP-AES)



鋼,銅,鋁,焊錫 / Steel, copper, aluminum, solder	王水,硝酸,鹽酸,氫氟酸,雙氧水 /
	Aqua regia, HNO3, HC1, HF, H2O2
玻璃 / Glass	硝酸,氫氟酸 / HNO3/HF
金,鉑,鈀,陶瓷 / Gold, platinum, palladium, ceramic	王水 / Aqua regia
銀 / Silver	硝酸 / HNO3
塑膠 / Plastic	硫酸,雙氧水,硝酸,鹽酸 / H2SO4, H2O2, HNO3, HC1
其他 / Others	加入適當的試劑至完全溶解 / Added appropriate
	reagent to total digestion

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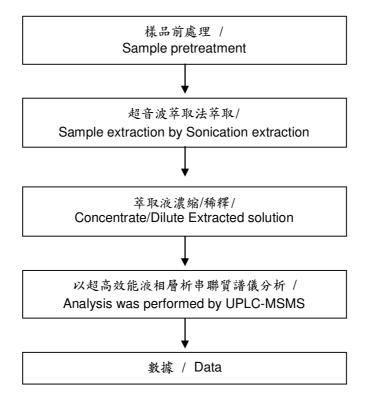
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雙酚A分析流程圖 / Bisphenol A analytical flow chart

- 測試人員:林建字 / Name of the person who made measurement: Roy Lin
- 測試負責人:張啓興 / Name of the person in charge of measurement: Troy Chang



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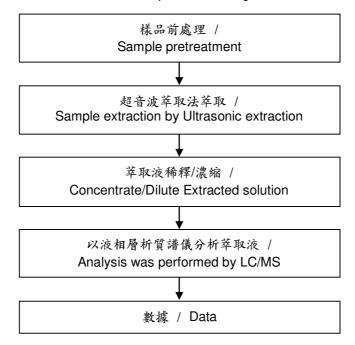
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四溴雙酚-A 分析流程圖 / TBBP-A analytical flow chart

- 測試人員:林建宇 / Name of the person who made measurement: Roy Lin
- 測試負責人:張啓興 / Name of the person in charge of measurement: Troy Chang



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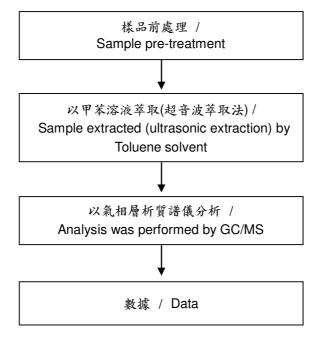


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多環芳香烴分析流程圖 / PAHs (Polynuclear Aromatic Hydrocarbons) analytical flow chart

- 測試人員: 翁賜彬 / Name of the person who made measurement: Roman Wong
- 測試負責人:張啓興 / Name of the person in charge of measurement: Troy Chang





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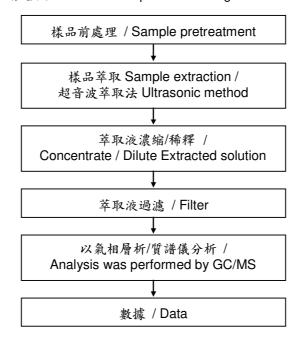
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乙二醇醚及其酯類分析流程圖 / Ethylene glycol ether analytical flow chart

- 測試人員:翁賜彬 / Name of the person who made measurement: Roman Wong
- 測試負責人:張啓興 / Name of the person in charge of measurement: Troy Chang



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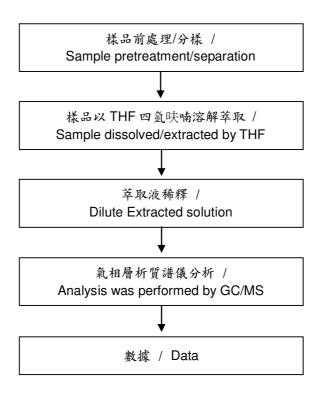
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可塑劑分析流程圖 / Analytical flow chart of phthalate content

- 測試人員:徐毓明 / Name of the person who made measurement: Andy Shu
- 測試負責人:張啓興 / Name of the person in charge of measurement: Troy Chang

【測試方法/Test method: IEC 62321-8】



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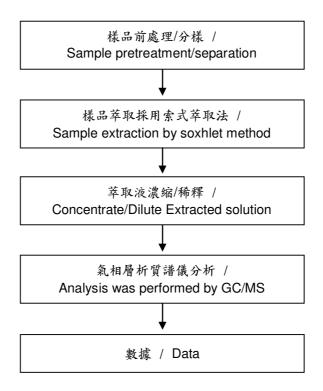
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可塑劑分析流程圖 / Analytical flow chart of phthalate content

■ 測試人員:翁賜彬 / Name of the person who made measurement: Roman Wong

■ 測試負責人:張啓興 / Name of the person in charge of measurement: Troy Chang

【測試方法/Test method: EN 14372】





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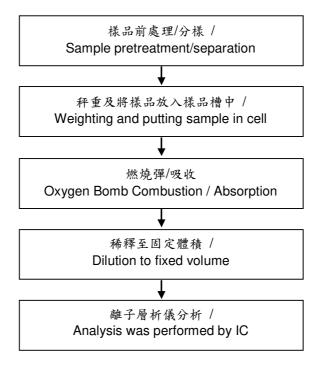
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鹵素分析流程圖 / Analytical flow chart of halogen content

- 測試人員:陳恩臻 / Name of the person who made measurement: Rita Chen
- 測試負責人:張啓興 / Name of the person in charge of measurement: Troy Chang



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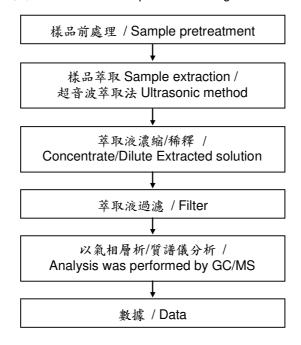
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六溴環十二烷分析流程圖 / HBCDD analytical flow chart

- 測試人員:翁賜彬 / Name of the person who made measurement: Roman Wong
- 測試負責人:張啓興 / Name of the person in charge of measurement: Troy Chang





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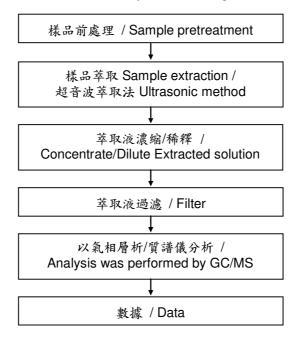
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富馬酸二甲酯分析流程圖 / Dimethyl Fumarate analytical flow chart

- 測試人員: 翁賜彬 / Name of the person who made measurement: Roman Wong
- 測試負責人:張啓興 / Name of the person in charge of measurement: Troy Chang





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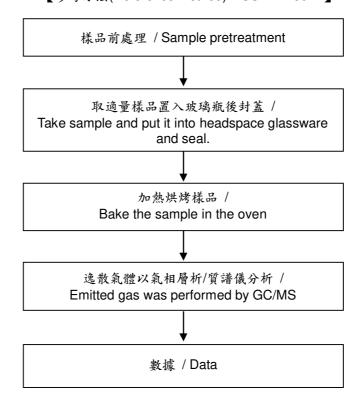


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揮發性有機化合物分析流程圖 / Analytical flow chart of volatile organic compounds (VOCs)

- 測試人員:吳椿景 / Name of the person who made measurement: Chun Wu
- 測試負責人:陳新智 / Name of the person in charge of measurement: Shinjyh Chen 【参考方法(Reference method):US EPA 5021】





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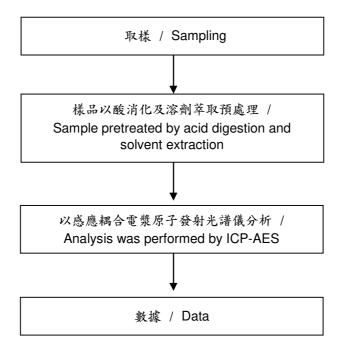
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二氯化鈷分析流程圖 / Analytical flow chart of Cobalt dichloride

- 測試人員:楊登偉 / Name of the person who made measurement: Climbgreat Yang
- 測試負責人:張啓興 / Name of the person in charge of measurement: Troy Chang



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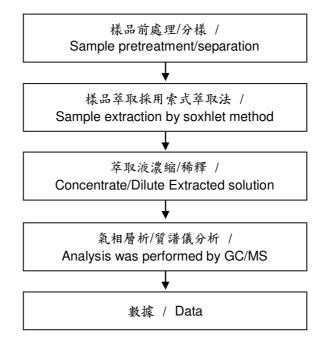
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苯並三唑類化合物分析流程圖 / Benzotriazole analytical flow chart

- 測試人員: 翁賜彬 / Name of the person who made measurement: Roman Wong
- 測試負責人:張啓興 / Name of the person in charge of measurement: Troy Chang





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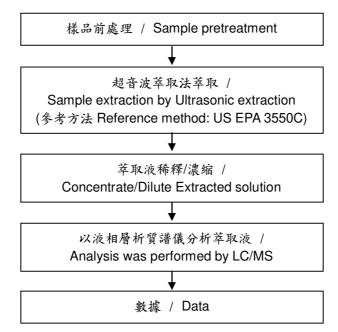
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全氟辛酸/全氟辛烷磺酸分析流程圖 / PFOA/PFOS analytical flow chart

- 測試人員: 翁賜彬 / Name of the person who made measurement: Roman Wong
- 測試負責人:張啓興 / Name of the person in charge of measurement: Troy Chang



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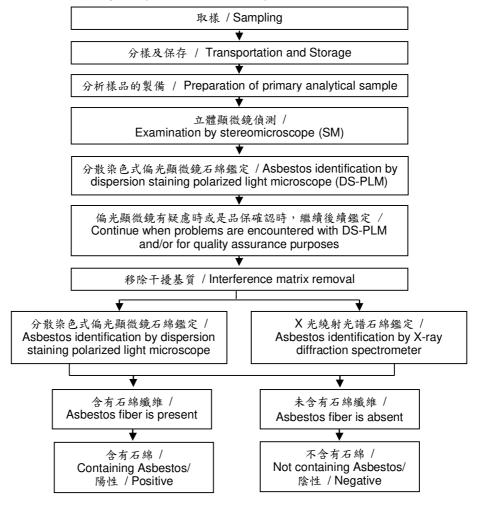
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石綿鑑定分析流程圖 / Analysis flow chart for determination of Asbestos

- 測試人員:高鍵忠 / Name of the person who made measurement: Victor Kao
- 測試負責人:魏明芬 / Name of the person in charge of measurement: Wendy Wei

【参考方法(Reference method): EPA 600/R-93/116】



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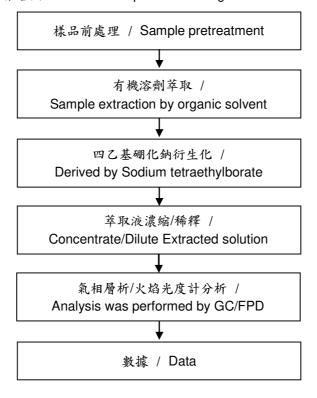
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有機錫分析流程圖 / Analytical flow chart of Organic-Tin content

- 測試人員:林建宇 / Name of the person who made measurement: Roy Lin
- 測試負責人:張啓興 / Name of the person in charge of measurement: Troy Chang



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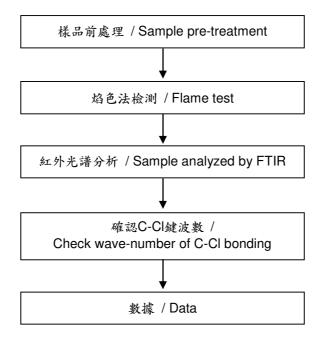
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聚氯乙烯物質判定分析流程圖 /

Analysis flow chart for determination of PVC in material

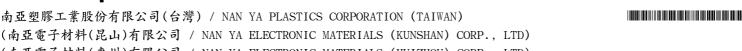
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- 測試負責人:張啓興 / Name of the person in charge of measurement: Troy Chang





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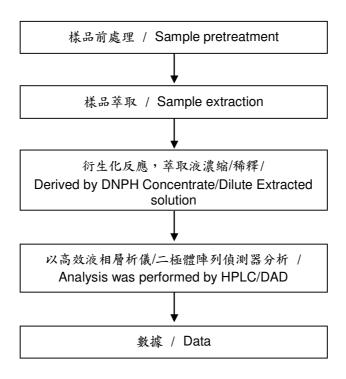


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甲醛分析流程圖 / Formaldehyde analytical flow chart

- 測試人員:涂雅苓 / Name of the person who made measurement: Yaling Tu
- 測試負責人:張啓興 / Name of the person in charge of measurement: Troy Chang





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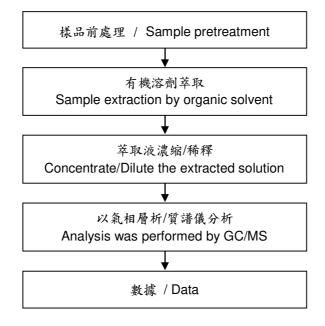
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氯化石蠟分析流程圖 / Chlorinated Paraffins analytical flow chart

- 測試人員:曾勃鈞 / Name of the person who made measurement: Barry Tseng
- 測試負責人:張啓興 / Name of the person in charge of measurement: Troy Chang





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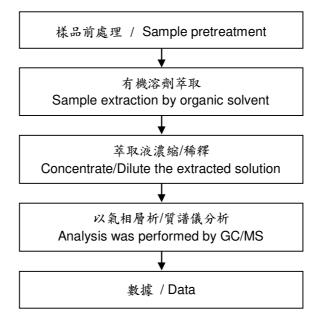
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多氯三聯苯分析流程圖 / PCTs analytical flow chart

- 測試人員: 曾勃鈞 / Name of the person who made measurement: Barry Tseng
- 測試負責人:張啓興 / Name of the person in charge of measurement: Troy Chang





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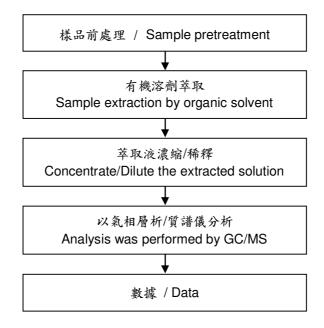
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多氯奈分析流程圖 / PCNs analytical flow chart

- 測試人員:曾勃鈞 / Name of the person who made measurement: Barry Tseng
- 測試負責人:張啓興 / Name of the person in charge of measurement: Troy Chang





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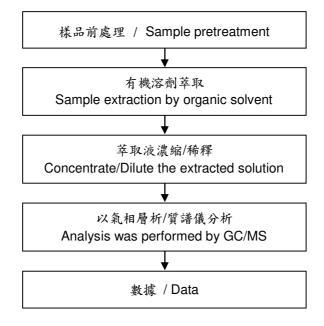
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多氯聯苯分析流程圖 / PCBs analytical flow chart

- 測試人員:曾勃鈞 / Name of the person who made measurement: Barry Tseng
- 測試負責人:張啓興 / Name of the person in charge of measurement: Troy Chang





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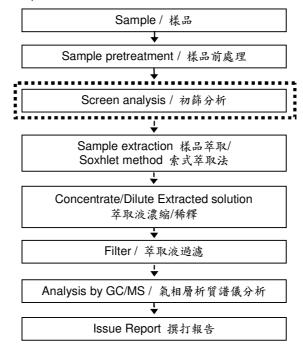
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多溴聯苯/多溴聯苯醚分析流程圖 / PBB/PBDE analytical FLOW CHART

- 測試人員: 翁賜彬 / Name of the person who made measurement: Roman Wong
- 測試負責人:張啓興 / Name of the person in charge of measurement: Troy Chang 初次測試程序 / First testing process ————

選擇性篩檢程序 / Optional screen process ••••••

確認程序 / Confirmation process - - - - →



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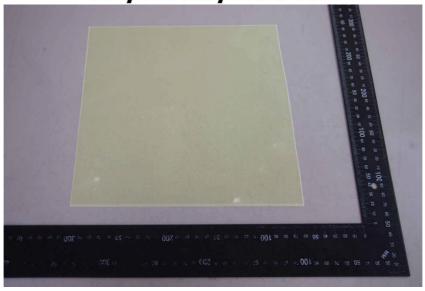
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* 照片中如有箭頭標示,則表示為實際檢測之樣品/部位. *

(The tested sample / part is marked by an arrow if it's shown on the photo.)

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** 報告結尾 (End of Report) **



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以下測試樣品係由申請廠商所提供及確認 (The following sample(s) was/were submitted and identified by/on behalf of the applicant as):

送樣廠商(Sample Submitted By) : 南亞塑膠工業股份有限公司 (NAN YA PLASTICS CORPORATION)

樣品名稱(Sample Description) : LAMINATE (UL E98983)

樣品型號(Style/Item No.) : UV BLOCK FR-4-86/NP-140TL

買主/訂單號碼(Buyer/Order No.) : 5106236 收件日期(Sample Receiving Date) : 2015/02/02

測試期間(Testing Period) : 2015/02/02 TO 2015/02/16

測試需求(Test Requested):

- (1) 依據客户要求,参考RoHS 2011/65/EU Annex II 指令測試鎬、鉛、汞、六價鉻、多溴聯苯、多溴聯苯醚. (As specified by client, with reference to RoHS Directive 2011/65/EU Annex II to determine Cadmium, Lead, Mercury, Cr(VI), PBBs, PBDEs contents in the submitted sample.)
- (2) 依據客户要求,參考 WTO/TBT 通報 G/TBT/N/EU/256,檢測 DBP, BBP, DEHP, DIBP. (As specified by client, with reference to G/TBT/N/EU/256 of WTO/TBT to test DBP, BBP, DEHP, DIBP.)
- (3) 依據客户要求,檢測 PAHs 及其他測項. / As specified by client, to test PAHs and other item(s).

測試結果(Test Results) : 請見下一頁 (Please refer to next pages). 結論(Conclusion) : 請見下一頁 (Please refer to next pages).



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結論(Conclusion)

- (1) 根據客户所提供的樣品,其鎬、鉛、汞、六價鉻、多溴聯苯、多溴聯苯醚的測試結果符合 RoHS 指令 2011/65/EU Annex II之要求 (Based on the performed tests on submitted samples, the test result(s) of Cadmium, Lead, Mercury, Cr(VI), PBBs, PBDEs comply with the limits as set by RoHS Directive 2011/65/EU Annex II.)
- (2) 根據客户所提供的樣品,其 DBP, BBP, DEHP, DIBP 之測試結果符合 WTO/TBT 通報 G/TBT/N/EU/256 之限值要求 (Based on the performed tests on submitted samples, the test results of DBP, BBP, DEHP, DIBP comply with the limits as set by G/TBT/N/EU/256 of WTO/TBT.)
- (3) 根據客户所提供的樣品,其 PAHs 的測試結果符合德國ZLS的ZEK 01.4-08及其相關修訂文件中的第1類PAHs要求 (Base upon the performed tests by submitted samples, the test results of PAHs comply with the PAHs requirement according to (Category 1) of ZEK 01.4-08 of German ZLS and its amendments.)



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測試結果(Test Results)

測試部位(PART NAME)No.1 : 銅色板子 (COPPER COLORED SHEET)

測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限値 (MDL)	結果 (Result) No.1	限値 (Limit)
鎬 / Cadmium (Cd)	mg/kg	参考IEC 62321-5: 2013方法,以感應 耦合電漿原子發射光譜儀檢測. / With reference to IEC 62321-5: 2013 and performed by ICP-AES.	2	n.d.	100
鉛 / Lead (Pb)	mg/kg	参考IEC 62321-5: 2013方法,以感應 耦合電漿原子發射光譜儀檢測. / With reference to IEC 62321-5: 2013 and performed by ICP-AES.	2	9	1000
汞 / Mercury (Hg)	mg/kg	参考IEC 62321-4: 2013方法,以感應 耦合電漿原子發射光譜儀檢測. / With reference to IEC 62321-4: 2013 and performed by ICP-AES.	2	n.d.	1000
六價鉻 / Hexavalent Chromium Cr(VI)	mg/kg	参考IEC 62321: 2008方法,以UV-VIS 檢測. / With reference to IEC 62321: 2008 and performed by UV- VIS.	2	n.d.	1000
鈹 / Beryllium (Be)	mg/kg	参考US EPA 3052方法,以感應耦合電 漿原子發射光譜儀檢測. / With reference to US EPA Method 3052. Analysis was performed by ICP-AES.	2	n.d.	-
氧化鈹 / Beryllium oxide (BeO)***	mg/kg	参考US EPA 3052方法,以感應耦合電 漿原子發射光譜儀檢測. / With reference to US EPA Method 3052. Analysis was performed by ICP- AES.***	-	n.d.	-



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測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限値 (MDL)	結果 (Result) No.1	限値 (Limit)
种 / Arsenic (As) (※2)	mg/kg	參考SGS内部方法RSTS-EE-SVHC-007, 以感應耦合電漿原子發射光譜儀檢測. / SGS In-House method-RSTS-EE- SVHC-007. Analyzed by ICP-AES.	50	n.d.	-
五氧化二砷 / Diarsenic pentaoxide*** (CAS No.: 1303-28-2)	mg/kg	参考SGS内部方法RSTS-EE-SVHC-007, 以感應耦合電漿原子發射光譜儀檢測. / SGS In-House method-RSTS-EE- SVHC-007. Analyzed by ICP-AES.***	-	n.d.	-
三氧化二砷 / Diarsenic trioxide*** (CAS No.: 1327-53-3)	mg/kg	參考SGS内部方法RSTS-EE-SVHC-007, 以感應耦合電漿原子發射光譜儀檢測. / SGS In-House method-RSTS-EE- SVHC-007. Analyzed by ICP-AES.***	-	n.d.	-
绨 / Antimony (Sb)	mg/kg	參考US EPA 3052方法,以感應耦合電 漿原子發射光譜儀檢測. / With reference to US EPA Method 3052. Analysis was performed by ICP-AES.	2	n.d.	-
硼 / Boron (B) (※2)	mg/kg	參考SGS内部方法RSTS-EE-SVHC-007, 以感應耦合電漿原子發射光譜儀檢測. / SGS In-House method-RSTS-EE- SVHC-007. Analyzed by ICP-AES.	50	n.d.	-
硼酸 / Boric acid*** (CAS No.: 10043-35-3; 11113-50-1)	mg/kg	參考SGS内部方法RSTS-EE-SVHC-007, 以感應耦合電漿原子發射光譜儀檢測. / SGS In-House method-RSTS-EE- SVHC-007. Analyzed by ICP-AES.***	-	n.d.	-
無水四硼酸二鈉 / Disodium tetraborate, anhydrous*** (CAS No.: 1303-96-4, 1330-43-4, 12179-04-3)	mg/kg	參考SGS内部方法RSTS-EE-SVHC-007, 以感應耦合電漿原子發射光譜儀檢測. / SGS In-House method-RSTS-EE- SVHC-007. Analyzed by ICP-AES.***	-	n.d.	-



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(江蘇省昆山昆山市長江南路201號 / 201 CHANG JIANG ROAD(S) KUNSHAN ECONOMIC & TECHNICAL DEVELOPMENT ZONE, JIANG SU)

(廣東省惠州市博羅縣石灣鎮永石大道 / YONGSHI BOULEVARD SHIWAN TOWN BOLUO COUNTY HUIZHOU CITY GUANG DONG)

測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限値 (MDL)	結果 (Result) No.1	限值 (Limit)
水合硼酸鈉 / Tetraboron disodium heptaoxide, hydrate (CAS No.: 12267- 73-1) (*2)	mg/kg	參考SGS内部方法RSTS-EE-SVHC-007, 以感應耦合電漿原子發射光譜儀檢測. / SGS In-House method-RSTS-EE- SVHC-007. Analyzed by ICP-AES.	-	n.d.	-
四溴雙酚-A / Tetrabromobisphenol A (TBBP-A) (CAS No.: 79-94-7)	mg/kg	參考Global SOP RSTS-E&E-121方法, 以液相層析/質譜儀分析. / With reference to Global SOP RSTS-E&E- 121. Analysis was performed by LC/MS.	10	n.d.	-
雙酚 A / Bisphenol A (CAS No.: 80-05-7)	mg/kg	參考RSTS-HL-229-1方法,以超高效能 液相層析串聯質譜儀檢測./With reference to RSTS-HL-229-1 method. Analysis was performed by UPLC- MSMS.	1	n.d.	-
全氟辛烷磺酸 / Perfluorooctane sulfonates (PFOS-Acid, Metal Salt, Amide)	mg/kg	參考US EPA 3550C: 2007方法,以液相層析/質譜儀檢測./ With reference to US EPA 3550C: 2007. Analysis was performed by LC/MS.	10	n.d.	-
全氟辛酸 / PFOA (CAS No.: 335-67-1)	mg/kg	参考US EPA 3550C: 2007方法, 以液相 層析/質譜儀檢測. / With reference to US EPA 3550C: 2007. Analysis was performed by LC/MS.	10	n.d.	-
2- (3', 5'-二叔丁基-2'-羟基苯基)苯並 三氮唑 / 2- (3,5-di-tert-buty1-2- hydroxypheny1)-2H-benzotriazole (CAS No.: 3846-71-7)	mg/kg	參考US EPA 3540C方法,以氣相層析/質譜儀檢測之./With reference to US EPA 3540C method. Analysis was performed by GC/MS.	5	n.d.	-
二氯化鈷 / Cobalt dichloride (CAS No.: 7646-79-9)	mg/kg	參考SGS内部方法RSTS-EE-SVHC-007, 以感應耦合電漿原子發射光譜儀檢測. / SGS In-House method-RSTS-EE- SVHC-007. Analyzed by ICP-AES.	50	n.d.	-



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測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限値 (MDL)	結果 (Result) No.1	限値 (Limit)
多氯聯苯 / Polychlorinated Biphenyls (PCBs) (CAS No.: 1336-36-3)	mg/kg	參考US EPA 3540C方法,以氣相層析/ 質譜儀檢測. / With reference to US EPA 3540C method. Analysis was performed by GC/MS.	0.5	n.d.	-
多氯奈 / Polychlorinated Naphthalene (PCNs)	mg/kg	参考US EPA 3540C方法,以氣相層析/ 質譜儀檢測. / With reference to US EPA 3540C method. Analysis was performed by GC/MS.	5	n.d.	-
多氣三聯苯 / Polychlorinated Terphenyls (PCTs)	mg/kg	參考US EPA 3540C方法,以氣相層析/ 質譜儀檢測. / With reference to US EPA 3540C method. Analysis was performed by GC/MS.	0.5	n.d.	-
短鏈氯化石蠟 / Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins) (CAS No.: 85535-84-8)	mg/kg	參考US EPA 3540C方法,以氣相層析/ 質譜儀檢測. / With reference to US EPA 3540C method. Analysis was performed by GC/MS.	100	n.d.	-
甲醛 / Formaldehyde (CAS No.: 50-00-0)	mg/kg	參考ISO 17226-1(2008)方法,以高效 液相層析儀/二極體陣列偵測器檢測./ With reference to ISO 17226- 1(2008). Analysis was performed by HPLC/DAD.	3	n.d.	-
聚氯乙烯 / PVC	**	以紅外光譜分析及焰色法檢測. / Analysis was performed by FTIR and FLAME Test.	-	Negative	-
六氟化硫 / Sulfur Hexafluoride (SF6) (CAS No.: 2551-62-4)	mg/kg	參考US EPA 5021方法,以氣相層析/質譜儀檢測./With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-



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測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限値 (MDL)	結果 (Result) No.1	限值 (Limit)
富馬酸二甲酯 / Dimethyl Fumarate (CAS No.: 624-49-7)	mg/kg	參考US EPA 3550C方法,以氣相層析/ 質譜儀檢測. / With reference to US EPA 3550C method. Analysis was performed by GC/MS.	0.1	n.d.	-
磷酸三(2-氯乙基)酯 / Tris (2- chloroethyl) phosphate (TCEP) (CAS No.: 115-96-8)	mg/kg	参考US EPA 3550C方法,以氣相層析/ 質譜儀檢測. / With reference to US EPA 3550C method. Analysis was performed by GC/MS.	5	n.d.	-
磷酸三(1-氯-2-丙基)酯 / Tris(1- chloro-2-propyl) phosphate (TCPP) (CAS No.: 13674-84-5)	mg/kg	參考US EPA 3550C方法,以氣相層析/ 質譜儀檢測. / With reference to US EPA 3550C method. Analysis was performed by GC/MS.	5	n.d.	-
磷酸三(1,3-二氯異丙基)酯 / Tris(1,3-dichloro-2-propyl)phosphate (TDCPP) (CAS No.: 13674-87-8)	mg/kg	參考US EPA 3550C方法,以氣相層析/ 質譜儀檢測. / With reference to US EPA 3550C method. Analysis was performed by GC/MS.	5	n.d.	-
磷酸三(二甲苯)酯 / Trixylyl phosphate (TXP) (CAS No.: 25155-23- 1)	mg/kg	參考US EPA 3550C方法,以氣相層析/ 質譜儀檢測. / With reference to US EPA 3550C method. Analysis was performed by GC/MS.	25	n.d.	-
六溴環十二烷及所有主要被辨别出的異構物 / Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified (α - HBCDD, β - HBCDD, γ - HBCDD) (CAS No.: 25637-99-4 and 3194-55-6 (134237-51-7, 134237-50-6, 134237-52-8))	mg/kg	參考IEC 62321: 2008方法,以氣相層析/質譜儀檢測. / With reference to IEC 62321: 2008 method. Analysis was performed by GC/MS.	5	n.d.	-



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測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限値 (MDL)	結果 (Result) No.1	限値 (Limit)
對特辛基苯酚 / 辛基酚 / 4-(1,1,3,3-tetramethylbutyl) phenol, (4-tert-Octylphenol) (CAS No.: 140-66-9)	mg/kg	參考US EPA 3550C方法,以液相層析/ 質譜儀檢測. / With reference to US EPA 3550C method. Analysis was performed by LC/MS.	10	n.d.	-
双(2-甲氧基乙基)醚 / Bis(2- methoxyethyl) ether (CAS No.: 111- 96-6)	mg/kg	参考US EPA 3550C方法,以氣相層析/ 質譜儀檢測. / With reference to US EPA 3550C method. Analysis was performed by GC/MS.	10	n.d.	-
N,N-二甲基乙醯胺 / N,N-dimethylacetamide (DMAC) (CAS No.: 127-19-5)	mg/kg	参考US EPA 3550C方法,以氣相層析/ 質譜儀檢測. / With reference to US EPA 3550C method. Analysis was performed by GC/MS.	10	n.d.	-
鄰苯二甲酸二 (2-乙基己基)酯 / DEHP (Di- (2-ethylhexyl) phthalate) (CAS No.: 117-81-7)	mg/kg		50	n.d.	1000
鄰苯二甲酸二丁酯 / DBP (Dibutyl phthalate) (CAS No.: 84-74-2)	mg/kg		50	n.d.	1000
鄰苯二甲酸丁苯甲酯 / BBP (Butyl Benzyl phthalate) (CAS No.: 85-68-7)	mg/kg		50	n.d.	1000
鄰苯二甲酸二異丁酯 / DIBP (Di- isobutyl phthalate) (CAS No.: 84-69- 5)	mg/kg	参考IEC 62321-8 (111/321/CD),以氣相層析儀/質譜儀檢測之./ With reference to IEC 62321-8	50	n.d.	1000
鄰苯二甲酸二異壬酯 / DINP (Di- isononyl phthalate) (CAS No.: 28553- 12-0; 68515-48-0)	mg/kg	(111/321/CD). Analysis was performed by GC/MS.	50	n.d.	-
鄰苯二甲酸二異癸酯 / DIDP (Di- isodecyl phthalate) (CAS No.: 26761- 40-0; 68515-49-1)	mg/kg		50	n.d.	-
鄰苯二甲酸二正辛酯 / DNOP (Di-n- octyl phthalate) (CAS No.: 117-84-0)	mg/kg		50	n.d.	-



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測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限値 (MDL)	結果 (Result) No.1	限値 (Limit)
鄰苯二甲酸二己酯 / DNHP (Di-n-hexyl phthalate) (CAS No.: 84-75-3)	%	参考EN 14372, 以氣相層析/質譜儀檢測. / With reference to EN 14372. Analysis was performed by GC/MS.	0.003	n.d.	-
鄰苯二甲酸二 (C6-8支鏈與直鏈)烷基酯 ,富C7 / DIHP (1,2- Benzenedicarboxylic acid, di-C6-8- branched alkyl esters, C7-rich) (CAS No.: 71888-89-6)	%	参考EN 14372, 以氣相層析/質譜儀檢測. / With reference to EN 14372. Analysis was performed by GC/MS.	0.01	n.d.	-
鄰苯二甲酸二 (C7-11支鏈與直鏈)烷基酯 / DHNUP (1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters) (CAS No.: 68515-42-4)	%	参考EN 14372, 以氣相層析/質譜儀檢測. / With reference to EN 14372. Analysis was performed by GC/MS.	0.01	n.d.	-
鄰苯二甲酸二 (2-甲氧基乙基)酯 / DMEP (Bis (2-methoxyethyl) phthalate) (CAS No.: 117-82-8)	%	參考EN 14372, 以氣相層析/質譜儀檢測. / With reference to EN 14372. Analysis was performed by GC/MS.	0.003	n.d.	-
鄰苯二甲酸二異戊酯 / DIPP (DiisopentylPhthalate) (CAS No.: 605-50-5)	%	參考EN 14372, 以氣相層析/質譜儀檢測. / With reference to EN 14372. Analysis was performed by GC/MS.	0.003	n.d.	-
支鏈和直鏈1,2-苯二羧二戊酯 / 1,2- Benzenedicarboxylic acid, dipentylester, branched and linear (CAS No.: 84777-06-0)	%	参考EN 14372, 以氣相層析/質譜儀檢測. / With reference to EN 14372. Analysis was performed by GC/MS.	0.003	n.d.	-
鄰苯二甲酸正戊基異戊基酯 / N-pentyl-isopentylphthalate	%	参考EN 14372, 以氣相層析/質譜儀檢測. / With reference to EN 14372. Analysis was performed by GC/MS.	0.003	n.d.	-
鄰苯二甲酸二戊酯 / DPP (Di-pentyl phthalate) (CAS No.: 131-18-0)	%	參考EN 14372, 以氣相層析/質譜儀檢測. / With reference to EN 14372. Analysis was performed by GC/MS.	0.003	n.d.	-



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測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限値 (MDL)	結果 (Result) No.1	限値 (Limit)
鄰苯二甲酸二正戊酯 / DNPP (Di-n- pentyl phthalate) (CAS No.: 131-18- 0)	%	參考EN 14372, 以氣相層析/質譜儀檢 測. / With reference to EN 14372. Analysis was performed by GC/MS.	0.003	n.d.	-
乙二醇二甲醚 / Ethylene glycol dimethyl ether (EGDME) (CAS No.: 110-71-4)	mg/kg	參考US EPA 3550C方法,以氣相層析/ 質譜儀檢測. / With reference to US EPA 3550C method. Analysis was performed by GC/MS.	10	n.d.	-
過氣酸鹽 / Perchlorate (CAS No.: 14797-73-0)	mg/kg	以離子層析儀檢測. / Analysis was performed by IC.	0.006	n.d.	-
溴甲烷 / Bromomethane (CAS No.: 74-83-9)	mg/kg	參考US EPA 5021方法,以氣相層析/質譜儀檢測./With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
鹵素 / Halogen					
鹵素(氯)/ Halogen-Chlorine (C1) (CAS No.: 22537-15-1)			50	339	-
鹵素(溴)/ Halogen-Bromine (Br) (CAS No.: 10097-32-2)	/1	參考BS EN 14582:2007, 以離子層析儀 分析. / With reference to BS EN	50	46900	-
鹵素(氟)/ Halogen-Fluorine (F) (CAS No.: 14762-94-8)	mg/kg	14582:2007. Analysis was performed by IC.	50	906	-
鹵素(碘)/ Halogen-Iodine (I) (CAS No.: 14362-44-8)			50	n.d.	-



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測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限値	結果 (Result)	限値 (Limit)
(Test Items)	(onit)	(Method)	(MDL)	No.1	(Dimit)
多溴聯苯總和 / Sum of PBBs			-	n.d.	1000
一溴聯苯 / Monobromobiphenyl]		5	n.d.	-
二溴聯苯 / Dibromobiphenyl]		5	n.d.	-
三溴聯苯 / Tribromobiphenyl]		5	n.d.	-
四溴聯苯 / Tetrabromobiphenyl			5	n.d.	-
五溴聯苯 / Pentabromobiphenyl			5	n.d.	-
六溴聯苯 / Hexabromobiphenyl			5	n.d.	-
七溴聯苯 / Heptabromobiphenyl			5	n.d.	-
八溴聯苯 / Octabromobiphenyl			5	n.d.	-
九溴聯苯 / Nonabromobiphenyl		参考IEC 62321: 2008方法, 以氣相層	5	n.d.	-
十溴聯苯 / Decabromobiphenyl	,,	析/質譜儀檢測. / With reference to	5	n.d.	-
多溴聯苯醚總和 / Sum of PBDEs	mg/kg	IEC 62321: 2008 and performed by	-	n.d.	1000
一溴聯苯醚 / Monobromodiphenyl ether		GC/MS.	5	n.d.	-
二溴聯苯醚 / Dibromodiphenyl ether			5	n.d.	-
三溴聯苯醚 / Tribromodiphenyl ether			5	n.d.	=
四溴聯苯醚 / Tetrabromodiphenyl ether			5	n.d.	=
五溴聯苯醚 / Pentabromodiphenyl ether			5	n.d.	=
六溴聯苯醚 / Hexabromodiphenyl ether			5	n.d.	=
七溴聯苯醚 / Heptabromodiphenyl ether	1		5	n.d.	-
八溴聯苯醚 / Octabromodiphenyl ether	1		5	n.d.	-
九溴聯苯醚 / Nonabromodiphenyl ether	1		5	n.d.	-
十溴聯苯醚 / Decabromodiphenyl ether	1		5	n.d.	-



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南亞塑膠工業股份有限公司(台灣) / NAN YA PLASTICS CORPORATION (TAIWAN) (南亞電子材料(昆山)有限公司 / NAN YA ELECTRONIC MATERIALS (KUNSHAN) CORP., LTD) (南亞電子材料(惠州)有限公司 / NAN YA ELECTRONIC MATERIALS (HUIZHOU) CORP., LTD)

台灣台北市敦化北路201號 / 201 TUNG HWA NORTH ROAD, TAIPEI, TAIWAN

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(廣東省惠州市博羅縣石灣鎮永石大道 / YONGSHI BOULEVARD SHIWAN TOWN BOLUO COUNTY HUIZHOU CITY GUANG DONG)

測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限値 (MDL)	結果 (Result) No.1	限值 (Limit)
有機錫 / Organic-tin compounds					
三丁基錫 / Tributyl Tin (TBT)			0.03	n.d.	-
三苯基錫 / Triphenyl Tin (TphT)		多考ISO 17353方法,以氣相層析儀/火	0.03	n.d.	-
二丁基錫 / Dibutyl Tin (DBT)	/1	焰光度偵測器檢測. / With reference	0.03	n.d.	-
二辛基錫 / Dioctyl Tin (DOT)	mg/kg	to ISO 17353. Analysis was	0.03	n.d.	-
三丁基錫氧化物 / Tributyl Tin Oxide (TBTO)*** (CAS No.: 56-35-9)		performed by GC/FPD.	-	n.d.	-
偶氮 (AZO)					
1): 4-氨基二苯 / 4-AMINODIPHENYL (CAS No.: 92-67-1)	mg/kg	參考LFGB 82.02-2方法,以氣相層析/ 質譜儀檢測. / With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	3	n.d.	-
2): 聯苯胺 / BENZIDINE (CAS No.: 92- 87-5)	mg/kg	参考LFGB 82.02-2方法,以氣相層析/ 質譜儀檢測. / With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	3	n.d.	-
3): 4-氯鄰甲苯胺 / 4-CHLORO-O- TOLUIDINE (CAS No.: 95-69-2)	mg/kg	参考LFGB 82.02-2方法,以氣相層析/ 質譜儀檢測. / With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	3	n.d.	-
4): 2-萘胺 / 2-NAPHTHYLAMINE (CAS No.: 91-59-8)	mg/kg	參考LFGB 82.02-2方法,以氣相層析/ 質譜儀檢測. / With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	3	n.d.	-
5): 鄰氨基二甲基偶氮 / O- AMINOAZOTOLUENE (CAS No.: 97-56-3)	mg/kg	參考LFGB 82.02-2方法,以氣相層析/ 質譜儀檢測. / With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	3	n.d.	-

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(廣東省惠州市博羅縣石灣鎮永石大道 / YONGSHI BOULEVARD SHIWAN TOWN BOLUO COUNTY HUIZHOU CITY GUANG DONG)

測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限値 (MDL)	結果 (Result) No.1	限値 (Limit)
6): 對硝基鄰甲苯胺 / 2-AMINO-4- NITROTOLUENE (CAS No.: 99-55-8)	mg/kg	參考LFGB 82.02-2方法,以氣相層析/ 質譜儀檢測. / With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	3	n.d.	-
7): 對氯苯胺 / P-CHLOROANILINE (CAS No.: 106-47-8)	mg/kg	参考LFGB 82.02-2方法,以氣相層析/ 質譜儀檢測. / With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	3	n.d.	-
8): 4-甲氧基-間苯二胺 / 2,4- DIAMINOANISOLE (CAS No.: 615-05-4)	mg/kg	参考LFGB 82.02-2方法,以氣相層析/ 質譜儀檢測. / With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	3	n.d.	-
9): 4,4'-二氨基二苯甲烷 / 4,4'- DIAMINODIPHENYLMETHANE (CAS No.: 101-77-9)	mg/kg	参考LFGB 82.02-2方法,以氣相層析/ 質譜儀檢測. / With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	3	n.d.	-
10): 3,3'-二氯聯苯胺 / 3,3'- DICHLOROBENZIDINE (CAS No.: 91-94-1)	mg/kg	參考LFGB 82.02-2方法,以氣相層析/ 質譜儀檢測. / With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	3	n.d.	-
11): 3,3'-二甲氧基聯苯胺 / 3,3'- DIMETHOXYBENZIDINE (CAS No.: 119-90- 4)	mg/kg	參考LFGB 82.02-2方法,以氣相層析/ 質譜儀檢測. / With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	3	n.d.	-
12): 3,3'-二甲基聯苯胺 / 3,3'- DIMETHYLBENZIDINE (CAS No.: 119-93- 7)	mg/kg	参考LFGB 82.02-2方法,以氣相層析/ 質譜儀檢測. / With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	3	n.d.	-



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南亞塑膠工業股份有限公司(台灣) / NAN YA PLASTICS CORPORATION (TAIWAN) (南亞電子材料(昆山)有限公司 / NAN YA ELECTRONIC MATERIALS (KUNSHAN) CORP., LTD) (南亞電子材料(惠州)有限公司 / NAN YA ELECTRONIC MATERIALS (HUIZHOU) CORP., LTD)

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測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限値 (MDL)	結果 (Result) No.1	限値 (Limit)
13): 3,3'-二甲基-4,4'-二氨基二苯甲烷 / 3,3'-DIMETHYL-4,4'- DIAMINODIPHENYLMETHANE (CAS No.: 838-88-0)	mg/kg	參考LFGB 82.02-2方法,以氣相層析/ 質譜儀檢測. / With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	3	n.d.	-
14): 2-甲氧基-5-甲基聯苯 / P- CRESIDINE (2-METHOXY-5- METHYLANILINE) (CAS No.: 120-71-8)	mg/kg	參考LFGB 82.02-2方法,以氣相層析/ 質譜儀檢測. / With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	3	n.d.	-
15): 4,4'-亞甲基雙(氯苯胺)/ 4,4'- METHYLENE-BIS- (2-CHLOROANILINE) (CAS No.: 101-14-4)	mg/kg	參考LFGB 82.02-2方法,以氣相層析/ 質譜儀檢測. / With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	3	n.d.	-
16): 4,4'-氧化雙苯胺 / 4,4'- OXYDIANILINE (CAS No.: 101-80-4)	mg/kg	参考LFGB 82.02-2方法,以氣相層析/ 質譜儀檢測. / With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	3	n.d.	-
17): 4,4'-硫代雙苯胺 / 4,4'- THIODIANILINE (CAS No.: 139-65-1)	mg/kg	參考LFGB 82.02-2方法,以氣相層析/ 質譜儀檢測. / With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	3	n.d.	-
18): 鄰甲苯胺 / O-TOLUIDINE (CAS No.: 95-53-4)	mg/kg	參考LFGB 82.02-2方法,以氣相層析/ 質譜儀檢測. / With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	3	n.d.	-
19): 2,4-二氨基甲苯 / 2,4- TOLUYLENEDIAMINE (CAS No.: 95-80-7)	mg/kg	參考LFGB 82.02-2方法,以氣相層析/ 質譜儀檢測. / With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	3	n.d.	-

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南亞塑膠工業股份有限公司(台灣) / NAN YA PLASTICS CORPORATION (TAIWAN) (南亞電子材料(昆山)有限公司 / NAN YA ELECTRONIC MATERIALS (KUNSHAN) CORP., LTD) (南亞電子材料(惠州)有限公司 / NAN YA ELECTRONIC MATERIALS (HUIZHOU) CORP., LTD) 台灣台北市敦化北路201號 / 201 TUNG HWA NORTH ROAD, TAIPEI, TAIWAN

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測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限値	結果 (Result) No.1	限値 (Limit)
	(Onit)	(method)	(MDL)		(Limit)
20): 2,4,5-三甲基苯胺 / 2,4,5- TRIMETHYLANILINE (CAS No.: 137-17-7)	mg/kg	参考LFGB 82.02-2方法,以氣相層析/ 質譜儀檢測. / With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	3	n.d.	-
21): 鄰位甲氧基苯胺 / O-ANISIDINE (CAS No.: 90-04-0)	mg/kg	參考LFGB 82.02-2方法,以氣相層析/ 質譜儀檢測. / With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	3	n.d.	-
22): 對氨基偶氮苯 / 4- AMINOAZOBENZENE (CAS No.: 60-09-3)	mg/kg	参考LFGB 82.02-2方法,以氣相層析/ 質譜儀檢測. / With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	3	n.d.	-
23): 2,4-二甲基苯胺 / 2,4-XYLIDINE (CAS No.: 95-68-1)	mg/kg	参考LFGB 82.02-2方法,以氣相層析/ 質譜儀檢測. / With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	3	n.d.	-
24): 2,6-二甲基苯胺 / 2,6-XYLIDINE (CAS No.: 87-62-7)	mg/kg	参考LFGB 82.02-2方法,以氣相層析/ 質譜儀檢測. / With reference to LFGB 82.02-2. Analysis was performed by GC/MS.	3	n.d.	-
氫氟碳化物 / HFCs (Hydrofluorocarbon)					
氫氟碳化物 (HFC)-23 (CHF3) (CAS No.: 75-46-7)	mg/kg	參考US EPA 5021方法,以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-



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測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限値 (MDL)	結果 (Result) No.1	限值 (Limit)
氫氟碳化物 (HFC)-32 (CH2F2) (CAS No.: 75-10-5)	mg/kg	參考US EPA 5021方法,以氣相層析/質譜儀檢測./With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
氫氟碳化物 (HFC)-41 (CH3F) (CAS No.: 593-53-3)	mg/kg	参考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
氫氟碳化物 (HFC)-43-10mee (C5H2F10)	mg/kg	参考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
氫氟碳化物 (HFC)-125 (C2HF5)	mg/kg	參考US EPA 5021方法,以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
氫氟碳化物 (HFC)-134 (C2H2F4)	mg/kg	参考US EPA 5021方法,以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
氫氟碳化物 (HFC)-134a (CH2FCF3) (CAS No.: 811-97-2)	mg/kg	参考US EPA 5021方法,以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
氫氟碳化物 (HFC)-143 (CH3F3)	mg/kg	參考US EPA 5021方法,以氣相層析/質譜儀檢測./With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-



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南亞塑膠工業股份有限公司(台灣) / NAN YA PLASTICS CORPORATION (TAIWAN) (南亞電子材料(昆山)有限公司 / NAN YA ELECTRONIC MATERIALS (KUNSHAN) CORP., LTD) (南亞電子材料(惠州)有限公司 / NAN YA ELECTRONIC MATERIALS (HUIZHOU) CORP., LTD) 台灣台北市敦化北路201號 / 201 TUNG HWA NORTH ROAD, TAIPEI, TAIWAN

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測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限値 (MDL)	結果 (Result) No.1	限値 (Limit)
氫氟碳化物 (HFC)-143a (CH3F3)	mg/kg	參考US EPA 5021方法,以氣相層析/質譜儀檢測./With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
氫氟碳化物 (HFC)-152a (C2H4F2) (CAS No.: 75-37-6)	mg/kg	參考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
氫氟碳化物 (HFC)-227ea (C3HF7) (CAS No.: 431-89-0)	mg/kg	参考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
氫氟碳化物 (HFC)-236fa (C3H2F6)	mg/kg	參考US EPA 5021方法,以氣相層析/質譜儀檢測./With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
氫氟碳化物 (HFC)-236ea (C3H2F6) (CAS No.: 431-63-0)	mg/kg	參考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
氫氟碳化物 (HFC)-245ca (C3H3F5)	mg/kg	參考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
氫氟碳化物 (HFC)-245fa (C3H3F5)	mg/kg	參考US EPA 5021方法,以氣相層析/質譜儀檢測./ With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-



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南亞塑膠工業股份有限公司(台灣) / NAN YA PLASTICS CORPORATION (TAIWAN) (南亞電子材料(昆山)有限公司 / NAN YA ELECTRONIC MATERIALS (KUNSHAN) CORP., LTD) (南亞電子材料(惠州)有限公司 / NAN YA ELECTRONIC MATERIALS (HUIZHOU) CORP., LTD)

HAN) CORP., LTD)

台灣台北市敦化北路201號 / 201 TUNG HWA NORTH ROAD, TAIPEI, TAIWAN

(江蘇省昆山昆山市長江南路201號 / 201 CHANG JIANG ROAD(S) KUNSHAN ECONOMIC & TECHNICAL DEVELOPMENT ZONE, JIANG SU)

(廣東省惠州市博羅縣石灣鎮永石大道 / YONGSHI BOULEVARD SHIWAN TOWN BOLUO COUNTY HUIZHOU CITY GUANG DONG)

測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限値 (MDL)	結果 (Result) No.1	限値 (Limit)
氫氟碳化物 (HFC)-365mfc (C4H5F5)	mg/kg	參考US EPA 5021方法,以氣相層析/質譜儀檢測./With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
全氟碳化物 / PFCs (Perfluorocarbon)					
四氟甲烷 / F14 (CAS No.: 75-73-0)	mg/kg	參考US EPA 5021方法,以氣相層析/質譜儀檢測./With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
六氟乙烷 / Fluorocarbon 116 (CAS No.: 76-16-4)	mg/kg	參考US EPA 5021方法,以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
八氟丙烷 / Freon 218 (CAS No.: 76- 19-7)	mg/kg	参考US EPA 5021方法,以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
十氟丁烷 / Decafluorobutane (CAS No.: 355-25-9)	mg/kg	參考US EPA 5021方法,以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
八氟環丁烷 / Freon C318 (CAS No.: 115-25-3)	mg/kg	参考US EPA 5021方法,以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
全氟-1-丁烯 / Perfluor-1-butene (CAS No.: 357-26-6)	mg/kg	參考US EPA 5021方法,以氣相層析/質譜儀檢測./With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-



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南亞塑膠工業股份有限公司(台灣) / NAN YA PLASTICS CORPORATION (TAIWAN) (南亞電子材料(昆山)有限公司 / NAN YA ELECTRONIC MATERIALS (KUNSHAN) CORP., LTD)

(南亞電子材料(惠州)有限公司 / NAN YA ELECTRONIC MATERIALS (HUIZHOU) CORP., LTD)

台灣台北市敦化北路201號 / 201 TUNG HWA NORTH ROAD, TAIPEI, TAIWAN

(江蘇省昆山昆山市長江南路201號 / 201 CHANG JIANG ROAD(S) KUNSHAN ECONOMIC & TECHNICAL DEVELOPMENT ZONE, JIANG SU)

(廣東省惠州市博羅縣石灣鎮永石大道 / YONGSHI BOULEVARD SHIWAN TOWN BOLUO COUNTY HUIZHOU CITY GUANG DONG)

測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限値 (MDL)	結果 (Result) No.1	限値 (Limit)
全氟異丁烯 / perfluorisobutene (CAS No.: 382-21-8)	mg/kg	參考US EPA 5021方法,以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
1,4-二氫八氟丁烷 / 1,4- dihydrooctafluorobutane (CAS No.: 377-36-6)	mg/kg	參考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
2-全氟甲基丁烷 / nonafluor-2- (trifluoromethyl)butane (CAS No.: 594-91-2)	mg/kg	參考US EPA 5021方法,以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
全氟戊烷 / perfluoro-n-pentane (CAS No.: 678-26-2)	mg/kg	參考US EPA 5021方法,以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
2-全氟甲基戊烷 / 2- perfluoromethylpentane (CAS No.: 355-04-4)	mg/kg	參考US EPA 5021方法,以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
全氟己烷 / perfluorohexane (CAS No.: 355-42-0)	mg/kg	參考US EPA 5021方法,以氣相層析/質譜儀檢測./With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-



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南亞塑膠工業股份有限公司(台灣) / NAN YA PLASTICS CORPORATION (TAIWAN) (南亞電子材料(昆山)有限公司 / NAN YA ELECTRONIC MATERIALS (KUNSHAN) CORP., LTD) (南亞電子材料(惠州)有限公司 / NAN YA ELECTRONIC MATERIALS (HUIZHOU) CORP., LTD)

台灣台北市敦化北路201號 / 201 TUNG HWA NORTH ROAD, TAIPEI, TAIWAN

(江蘇省昆山昆山市長江南路201號 / 201 CHANG JIANG ROAD(S) KUNSHAN ECONOMIC & TECHNICAL DEVELOPMENT ZONE, JIANG SU)

(廣東省惠州市博羅縣石灣鎮永石大道 / YONGSHI BOULEVARD SHIWAN TOWN BOLUO COUNTY HUIZHOU CITY GUANG DONG)

測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限値 (MDL)	結果 (Result) No.1	限值 (Limit)
氣氣碳化物 / CFCs (Chlorofluorocarbons)					
Group I					
氟氯碳化物 (Chlorofluorocarbon)-11 (CAS No.: 75-69-4)	mg/kg	参考US EPA 5021方法,以氣相層析/質譜儀檢測./ With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
氟氯碳化物 (Chlorofluorocarbon)-12 (CAS No.: 75-71-8)	mg/kg	参考US EPA 5021方法,以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
氟氯碳化物 (Chlorofluorocarbon)-113 (CAS No.: 76-13-1)	mg/kg	参考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
氟氯碳化物 (Chlorofluorocarbon)-114 (CAS No.: 76-14-2)	mg/kg	参考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
氟氯碳化物 (Chlorofluorocarbon)-115 (CAS No.: 76-15-3)	mg/kg	参考US EPA 5021方法,以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
Group III					
氟氯碳化物 (Chlorofluorocarbon)-13 (CAS No.: 75-72-9)	mg/kg	参考US EPA 5021方法,以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-

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Test Report

南亞塑膠工業股份有限公司(台灣) / NAN YA PLASTICS CORPORATION (TAIWAN) (南亞電子材料(昆山)有限公司 / NAN YA ELECTRONIC MATERIALS (KUNSHAN) CORP., LTD) (南亞電子材料(惠州)有限公司 / NAN YA ELECTRONIC MATERIALS (HUIZHOU) CORP., LTD) 台灣台北市敦化北路201號 / 201 TUNG HWA NORTH ROAD, TAIPEI, TAIWAN (江蘇省昆山昆山市長江南路201號 / 201 CHANG JIANG ROAD(S) KUNSHAN ECONOMIC & TECHNICAL DEVELOPMENT ZONE, JIANG SU)

(廣東省惠州市博羅縣石灣鎮永石大道 / YONGSHI BOULEVARD SHIWAN TOWN BOLUO COUNTY HUIZHOU CITY GUANG DONG)

測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限値 (MDL)	結果 (Result) No.1	限値 (Limit)
氟氯碳化物 (Chlorofluorocarbon)-111 (CAS No.: 354-56-3)	mg/kg	参考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
氟氯碳化物 (Chlorofluorocarbon)-112 (CAS No.: 76-12-0)	mg/kg	参考US EPA 5021方法,以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
氟氯碳化物 (Chlorofluorocarbon)-211 (CAS No.: 422-78-6)	mg/kg	参考US EPA 5021方法,以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
氟氯碳化物 (Chlorofluorocarbon)-212 (CAS No.: 3182-26-1)	mg/kg	参考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
氟氯碳化物 (Chlorofluorocarbon)-213 (CAS No.: 2354-06-5)	mg/kg	参考US EPA 5021方法,以氣相層析/質譜儀檢測./ With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
氟氯碳化物 (Chlorofluorocarbon)-214 (CAS No.: 29255-31-0)	mg/kg	参考US EPA 5021方法,以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
氟氯碳化物 (Chlorofluorocarbon)-215 (CAS No.: 4259-43-2)	mg/kg	参考US EPA 5021方法,以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-



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南亞塑膠工業股份有限公司(台灣) / NAN YA PLASTICS CORPORATION (TAIWAN) (南亞電子材料(昆山)有限公司 / NAN YA ELECTRONIC MATERIALS (KUNSHAN) CORP., LTD) (南亞電子材料(惠州)有限公司 / NAN YA ELECTRONIC MATERIALS (HUIZHOU) CORP., LTD)

台灣台北市敦化北路201號 / 201 TUNG HWA NORTH ROAD, TAIPEI, TAIWAN

(江蘇省昆山昆山市長江南路201號 / 201 CHANG JIANG ROAD(S) KUNSHAN ECONOMIC & TECHNICAL DEVELOPMENT ZONE, JIANG SU)

(廣東省惠州市博羅縣石灣鎮永石大道 / YONGSHI BOULEVARD SHIWAN TOWN BOLUO COUNTY HUIZHOU CITY GUANG DONG)

測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限値 (MDL)	結果 (Result) No.1	限値 (Limit)
氟氯碳化物 (Chlorofluorocarbon)-216 (CAS No.: 661-97-2)	mg/kg	參考US EPA 5021方法,以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
氟氯碳化物 (Chlorofluorocarbon)-217 (CAS No.: 422-86-6)	mg/kg	參考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
氟氯氫碳化物 / HCFCs (Hydrochlorofluorocarbons)					
氟氯氫碳化物 (HCFC)-21 (CAS No.: 75-43-4)	mg/kg	參考US EPA 5021方法,以氣相層析/質譜儀檢測./ With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
氟氯氫碳化物 (HCFC)-22 (CAS No.: 75-45-6)	mg/kg	參考US EPA 5021方法,以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
氟氯氫碳化物 (HCFC)-31 (CAS No.: 593-70-4)	mg/kg	參考US EPA 5021方法,以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
氟氯氫碳化物 (HCFC)-121 (CAS No.: 354-14-3)	mg/kg	參考US EPA 5021方法,以氣相層析/質譜儀檢測./With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-



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南亞塑膠工業股份有限公司(台灣) / NAN YA PLASTICS CORPORATION (TAIWAN) (南亞電子材料(昆山)有限公司 / NAN YA ELECTRONIC MATERIALS (KUNSHAN) CORP., LTD) (南亞電子材料(惠州)有限公司 / NAN YA ELECTRONIC MATERIALS (HUIZHOU) CORP., LTD) 台灣台北市敦化北路201號 / 201 TUNG HWA NORTH ROAD, TAIPEI, TAIWAN

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(廣東省惠州市博羅縣石灣鎮永石大道 / YONGSHI BOULEVARD SHIWAN TOWN BOLUO COUNTY HUIZHOU CITY GUANG DONG)

測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限値 (MDL)	結果 (Result) No.1	限値 (Limit)
氟氯氫碳化物 (HCFC)-122 (CAS No.: 354-21-2)	mg/kg	參考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
氟氯氫碳化物 (HCFC)-123 (CAS No.: 306-83-2)	mg/kg	参考US EPA 5021方法,以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
氟氯氫碳化物 (HCFC)-124 (CAS No.: 2837-89-0)	mg/kg	参考US EPA 5021方法,以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
氟氯氫碳化物 (HCFC)-131 (CAS No.: 359-28-4)	mg/kg	參考US EPA 5021方法,以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
氟氯氫碳化物 (HCFC)-132b (CAS No.: 1649-08-7)	mg/kg	參考US EPA 5021方法,以氣相層析/質譜儀檢測./With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
氟氯氫碳化物 (HCFC)-133a (CAS No.: 75-88-7)	mg/kg	参考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
氟氯氫碳化物 (HCFC)-141b (CAS No.: 1717-00-6)	mg/kg	參考US EPA 5021方法,以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-



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南亞塑膠工業股份有限公司(台灣) / NAN YA PLASTICS CORPORATION (TAIWAN) (南亞電子材料(昆山)有限公司 / NAN YA ELECTRONIC MATERIALS (KUNSHAN) CORP., LTD) (南亞電子材料(惠州)有限公司 / NAN YA ELECTRONIC MATERIALS (HUIZHOU) CORP., LTD) 台灣台北市敦化北路201號 / 201 TUNG HWA NORTH ROAD, TAIPEI, TAIWAN

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測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限値 (MDL)	結果 (Result) No.1	限値 (Limit)
氟氯氫碳化物 (HCFC)-142b (CAS No.: 75-68-3)	mg/kg	參考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
氟氯氫碳化物 (HCFC)-221 (CAS No.: 422-26-4)	mg/kg	參考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
氟氯氫碳化物 (HCFC)-222 (CAS No.: 422-49-1)	mg/kg	參考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	1
氟氯氫碳化物 (HCFC)-223 (CAS No.: 422-52-6)	mg/kg	參考US EPA 5021方法,以氣相層析/質譜儀檢測./With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
氟氯氫碳化物 (HCFC)-224 (CAS No.: 422-54-8)	mg/kg	參考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	1
氟氯氫碳化物 (HCFC)-225ca (CAS No.: 422-56-0)	mg/kg	參考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
氟氯氫碳化物 (HCFC)-225cb (CAS No.: 507-55-1)	mg/kg	參考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-



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(南亞電子材料(惠州)有限公司 / NAN YA ELECTRONIC MATERIALS (HUIZHOU) CORP., LTD)

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南亞塑膠工業股份有限公司(台灣) / NAN YA PLASTICS CORPORATION (TAIWAN) (南亞電子材料(昆山)有限公司 / NAN YA ELECTRONIC MATERIALS (KUNSHAN) CORP., LTD)

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(廣東省惠州市博羅縣石灣鎮永石大道 / YONGSHI BOULEVARD SHIWAN TOWN BOLUO COUNTY HUIZHOU CITY GUANG DONG)

測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限値 (MDL)	結果 (Result) No.1	限値 (Limit)
氟氯氫碳化物 (HCFC)-226 (CAS No.: 431-87-8)	mg/kg	参考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
氟氯氫碳化物 (HCFC)-231 (CAS No.: 421-94-3)	mg/kg	參考US EPA 5021方法,以氣相層析/質譜儀檢測./ With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
氟氯氫碳化物 (HCFC)-232 (CAS No.: 460-89-9)	mg/kg	参考US EPA 5021方法,以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
氟氯氫碳化物 (HCFC)-233 (CAS No.: 7125-84-0)	mg/kg	参考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
氟氯氫碳化物 (HCFC)-234 (CAS No.: 425-94-5)	mg/kg	參考US EPA 5021方法,以氣相層析/質譜儀檢測./ With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
氟氯氫碳化物 (HCFC)-235 (CAS No.: 460-92-4)	mg/kg	参考US EPA 5021方法,以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
氟氯氫碳化物 (HCFC)-241 (CAS No.: 666-27-3)	mg/kg	參考US EPA 5021方法,以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-



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Test Report

南亞塑膠工業股份有限公司(台灣) / NAN YA PLASTICS CORPORATION (TAIWAN) (南亞電子材料(昆山)有限公司 / NAN YA ELECTRONIC MATERIALS (KUNSHAN) CORP., LTD) (南亞電子材料(惠州)有限公司 / NAN YA ELECTRONIC MATERIALS (HUIZHOU) CORP., LTD) 台灣台北市敦化北路201號 / 201 TUNG HWA NORTH ROAD, TAIPEI, TAIWAN

(江蘇省昆山昆山市長江南路201號 / 201 CHANG JIANG ROAD(S) KUNSHAN ECONOMIC & TECHNICAL DEVELOPMENT ZONE, JIANG SU)

(廣東省惠州市博羅縣石灣鎮永石大道 / YONGSHI BOULEVARD SHIWAN TOWN BOLUO COUNTY HUIZHOU CITY GUANG DONG)

測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限値 (MDL)	結果 (Result) No.1	限値 (Limit)
氟氯氫碳化物 (HCFC)-242 (CAS No.: 460-63-9)	mg/kg	參考US EPA 5021方法,以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
氟氯氫碳化物 (HCFC)-243 (CAS No.: 460-69-5)	mg/kg	參考US EPA 5021方法,以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
氟氯氫碳化物 (HCFC)-244	mg/kg	參考US EPA 5021方法,以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
氟氯氫碳化物 (HCFC)-251 (CAS No.: 421-41-0)	mg/kg	參考US EPA 5021方法,以氣相層析/質譜儀檢測./With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
氟氟氫碳化物 (HCFC)-252 (CAS No.: 819-00-1)	mg/kg	參考US EPA 5021方法,以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
氟氯氫碳化物 (HCFC)-253 (CAS No.: 460-35-5)	mg/kg	参考US EPA 5021方法,以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
氟氯氫碳化物 (HCFC)-261 (CAS No.: 420-97-3)	mg/kg	參考US EPA 5021方法,以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-



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南亞塑膠工業股份有限公司(台灣) / NAN YA PLASTICS CORPORATION (TAIWAN) (南亞電子材料(昆山)有限公司 / NAN YA ELECTRONIC MATERIALS (KUNSHAN) CORP., LTD) (南亞電子材料(惠州)有限公司 / NAN YA ELECTRONIC MATERIALS (HUIZHOU) CORP., LTD) 台灣台北市敦化北路201號 / 201 TUNG HWA NORTH ROAD, TAIPEI, TAIWAN (江蘇省昆山昆山市長江南路201號 / 201 CHANG JIANG ROAD(S) KUNSHAN ECONOMIC & TECHNICAL DEVELOPMENT ZONE, JIANG SU)

(廣東省惠州市博羅縣石灣鎮永石大道 / YONGSHI BOULEVARD SHIWAN TOWN BOLUO COUNTY HUIZHOU CITY GUANG DONG)

測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限値 (MDL)	結果 (Result) No.1	限値 (Limit)
氟氯氫碳化物 (HCFC)-262 (CAS No.: 421-02-03)	mg/kg	参考US EPA 5021方法,以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
氟氯氫碳化物 (HCFC)-271 (CAS No.: 430-55-7)	mg/kg	参考US EPA 5021方法,以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
海龍 (Halons) 海龍 (Halon)-1211 (CAS No.: 353-59- 3)	mg/kg	参考US EPA 5021方法,以氣相層析/質譜儀檢測./ With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
海龍 (Halon)-1301 (CAS No.: 75-63-8)	mg/kg	参考US EPA 5021方法,以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
海龍 (Halon)-2402 (CAS No.: 124-73- 2)	mg/kg	参考US EPA 5021方法,以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-



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南亞塑膠工業股份有限公司(台灣) / NAN YA PLASTICS CORPORATION (TAIWAN) (南亞電子材料(昆山)有限公司 / NAN YA ELECTRONIC MATERIALS (KUNSHAN) CORP., LTD) (南亞電子材料(惠州)有限公司 / NAN YA ELECTRONIC MATERIALS (HUIZHOU) CORP., LTD)

台灣台北市敦化北路201號 / 201 TUNG HWA NORTH ROAD, TAIPEI, TAIWAN

(江蘇省昆山昆山市長江南路201號 / 201 CHANG JIANG ROAD(S) KUNSHAN ECONOMIC & TECHNICAL DEVELOPMENT ZONE, JIANG SU)

(廣東省惠州市博羅縣石灣鎮永石大道 / YONGSHI BOULEVARD SHIWAN TOWN BOLUO COUNTY HUIZHOU CITY GUANG DONG)

測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限値 (MDL)	結果 (Result) No.1	限値 (Limit)
不完全鹵化氣溴化物 / HBFCs (Hydrobromofluorocarbons)					
不完全鹵化氟溴化物 (HBFC)-21B2 (CHFBr2) (CAS No.: 1868-53-7)	mg/kg	参考US EPA 5021方法,以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
不完全鹵化氟溴化物 (HBFC)-22B1 (CHF2Br) (CAS No.: 1511-62-2)	mg/kg	參考US EPA 5021方法,以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
不完全鹵化氟溴化物 (HBFC)-31B1 (CH2FBr) (CAS No.: 373-52-4)	mg/kg	參考US EPA 5021方法,以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
不完全鹵化氟溴化物 (HBFC)-121B4 (C2HFBr4)	mg/kg	參考US EPA 5021方法,以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
不完全鹵化氣溴化物 (HBFC)-122B3 (C2HF2Br3)	mg/kg	參考US EPA 5021方法,以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
不完全鹵化氟溴化物 (HBFC)-123B2 (C2HF3Br2)	mg/kg	參考US EPA 5021方法,以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-



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台灣台北市敦化北路201號 / 201 TUNG HWA NORTH ROAD, TAIPEI, TAIWAN

(江蘇省昆山昆山市長江南路201號 / 201 CHANG JIANG ROAD(S) KUNSHAN ECONOMIC & TECHNICAL DEVELOPMENT ZONE, JIANG SU)

(廣東省惠州市博羅縣石灣鎮永石大道 / YONGSHI BOULEVARD SHIWAN TOWN BOLUO COUNTY HUIZHOU CITY GUANG DONG)

測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限値 (MDL)	結果 (Result) No.1	限値 (Limit)
不完全鹵化氟溴化物 (HBFC)-124B1 (C2HF4Br)	mg/kg	參考US EPA 5021方法,以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
不完全鹵化氟溴化物 (HBFC)-131B3 (C2H2FBr3)	mg/kg	參考US EPA 5021方法,以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
不完全鹵化氣溴化物 (HBFC)-132B2 (C2H2F2Br2)	mg/kg	參考US EPA 5021方法,以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
不完全鹵化氣溴化物 (HBFC)-133B1 (C2H2F3Br)	mg/kg	參考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
不完全鹵化氟溴化物 (HBFC)-141B2 (C2H3FBr2)	mg/kg	參考US EPA 5021方法,以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
不完全鹵化氟溴化物 (HBFC)-142B1 (C2H3F2Br)	mg/kg	參考US EPA 5021方法,以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
不完全鹵化氣溴化物 (HBFC)-151B1 (C2H4FBr)	mg/kg	參考US EPA 5021方法,以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-



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南亞塑膠工業股份有限公司(台灣) / NAN YA PLASTICS CORPORATION (TAIWAN) (南亞電子材料(昆山)有限公司 / NAN YA ELECTRONIC MATERIALS (KUNSHAN) CORP., LTD)

(南亞電子材料(惠州)有限公司 / NAN YA ELECTRONIC MATERIALS (HUIZHOU) CORP., LTD)

台灣台北市敦化北路201號 / 201 TUNG HWA NORTH ROAD, TAIPEI, TAIWAN

(江蘇省昆山昆山市長江南路201號 / 201 CHANG JIANG ROAD(S) KUNSHAN ECONOMIC & TECHNICAL DEVELOPMENT ZONE, JIANG SU)

(廣東省惠州市博羅縣石灣鎮永石大道 / YONGSHI BOULEVARD SHIWAN TOWN BOLUO COUNTY HUIZHOU CITY GUANG DONG)

測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限値 (MDL)	結果 (Result) No.1	限値 (Limit)
不完全鹵化氟溴化物 (HBFC)-221B6 (C3HFBr6)	mg/kg	参考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
不完全鹵化氟溴化物 (HBFC)-222B5 (C3HF2Br5)	mg/kg	参考US EPA 5021方法,以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
不完全鹵化氟溴化物 (HBFC)-223B4 (C3HF3Br4)	mg/kg	参考US EPA 5021方法,以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
不完全鹵化氟溴化物 (HBFC)-224B3 (C3HF4Br3)	mg/kg	参考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
不完全鹵化氟溴化物 (HBFC)-225B2 (C3HF5Br2)	mg/kg	参考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
不完全鹵化氟溴化物 (HBFC)-226B1 (C3HF6Br)	mg/kg	参考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
不完全鹵化氟溴化物 (HBFC)-231B5 (C3H2FBr5)	mg/kg	参考US EPA 5021方法,以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	I



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南亞塑膠工業股份有限公司(台灣) / NAN YA PLASTICS CORPORATION (TAIWAN) (南亞電子材料(昆山)有限公司 / NAN YA ELECTRONIC MATERIALS (KUNSHAN) CORP., LTD) (南亞電子材料(惠州)有限公司 / NAN YA ELECTRONIC MATERIALS (HUIZHOU) CORP., LTD) 台灣台北市敦化北路201號 / 201 TUNG HWA NORTH ROAD, TAIPEI, TAIWAN (江蘇省昆山昆山市長江南路201號 / 201 CHANG JIANG ROAD(S) KUNSHAN ECONOMIC & TECHNICAL DEVELOPMENT ZONE, JIANG SU)

(廣東省惠州市博羅縣石灣鎮永石大道 / YONGSHI BOULEVARD SHIWAN TOWN BOLUO COUNTY HUIZHOU CITY GUANG DONG)

測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限値 (MDL)	結果 (Result) No.1	限値 (Limit)
不完全鹵化氣溴化物 (HBFC)-232B4 (C3H2F2Br4)	mg/kg	参考US EPA 5021方法,以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
不完全鹵化氟溴化物 (HBFC)-233B3 (C3H2F3Br3)	mg/kg	参考US EPA 5021方法,以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
不完全鹵化氟溴化物 (HBFC)-234B2 (C3H2F4Br2)	mg/kg	參考US EPA 5021方法,以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
不完全鹵化氟溴化物 (HBFC)-235B1 (C3H2F5Br)	mg/kg	参考US EPA 5021方法,以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
不完全鹵化氟溴化物 (HBFC)-241B4 (C3H3FBr4)	mg/kg	參考US EPA 5021方法,以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
不完全鹵化氟溴化物 (HBFC)-242B3 (C3H3F2Br3)	mg/kg	参考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
不完全鹵化氟溴化物 (HBFC)-243B2 (C3H3F3Br2)	mg/kg	参考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-



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南亞塑膠工業股份有限公司(台灣) / NAN YA PLASTICS CORPORATION (TAIWAN) (南亞電子材料(昆山)有限公司 / NAN YA ELECTRONIC MATERIALS (KUNSHAN) CORP., LTD) (南亞電子材料(惠州)有限公司 / NAN YA ELECTRONIC MATERIALS (HUIZHOU) CORP., LTD) 台灣台北市敦化北路201號 / 201 TUNG HWA NORTH ROAD, TAIPEI, TAIWAN

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測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限値 (MDL)	結果 (Result) No.1	限値 (Limit)
不完全鹵化氟溴化物 (HBFC)-244B1 (C3H3F4Br)	mg/kg	參考US EPA 5021方法,以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
不完全鹵化氟溴化物 (HBFC)-251B3 (C3H4FBr3)	mg/kg	參考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
不完全鹵化氟溴化物 (HBFC)-252B2 (C3H4F2Br2)	mg/kg	參考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
不完全鹵化氟溴化物 (HBFC)-253B1 (C3H4F3Br)	mg/kg	參考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
不完全鹵化氟溴化物 (HBFC)-261B2 (C3H5FBr2)	mg/kg	參考US EPA 5021方法,以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
不完全鹵化氟溴化物 (HBFC)-262B1 (C3H5F2Br)	mg/kg	參考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
不完全鹵化氣溴化物 (HBFC)-271B1 (C3H6FBr)	mg/kg	參考US EPA 5021方法,以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-

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南亞塑膠工業股份有限公司(台灣) / NAN YA PLASTICS CORPORATION (TAIWAN) (南亞電子材料(昆山)有限公司 / NAN YA ELECTRONIC MATERIALS (KUNSHAN) CORP., LTD) (南亞電子材料(惠州)有限公司 / NAN YA ELECTRONIC MATERIALS (HUIZHOU) CORP., LTD) 台灣台北市敦化北路201號 / 201 TUNG HWA NORTH ROAD, TAIPEI, TAIWAN

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(廣東省惠州市博羅縣石灣鎮永石大道 / YONGSHI BOULEVARD SHIWAN TOWN BOLUO COUNTY HUIZHOU CITY GUANG DONG)

測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限値 (MDL)	結果 (Result) No.1	限値 (Limit)
氯化碳氫化物 / CHCs (Chlorinate hydrocarbon)					
1,1,1,2-四氯乙烷 / 1,1,1,2- Tetrachloroethane (CAS No.: 630-20- 6)	mg/kg	参考US EPA 5021方法,以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
1,1,1-三氯乙烷 / 1,1,1- Trichloroethane (CAS No.: 71-55-6)	mg/kg	參考US EPA 5021方法,以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
1,1,2,2-四氯乙烷 / 1,1,2,2- Tetrachloroethane (CAS No.: 79-34-5)	mg/kg	参考US EPA 5021方法,以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
1,1,2-三氯乙烷 / 1,1,2- Trichloroethane (CAS No.: 79-00-5)	mg/kg	參考US EPA 5021方法,以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
1,1-二氯乙烷 / 1,1-Dichloroethane (CAS No.: 75-34-3)	mg/kg	參考US EPA 5021方法,以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
1,1-二氯乙烯 / 1,1-Dichloroethene (CAS No.: 75-35-4)	mg/kg	參考US EPA 5021方法,以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-



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測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限値 (MDL)	結果 (Result) No.1	限值 (Limit)
1,1-二氯丙烯 / 1,1-Dichloropropene (CAS No.: 563-58-6)	mg/kg	参考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	1
1,2,3-三氯丙烷 / 1,2,3- Trichloropropane (CAS No.: 96-18-4)	mg/kg	参考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
1,2-二氯乙烷 / 1,2-Dichloroethane (CAS No.: 107-06-2)	mg/kg	參考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
1,2-二氯丙烷 / 1,2-Dichloropropane (CAS No.: 78-87-5)	mg/kg	参考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
1,3-二氯丙烷 / 1,3-Dichloropropane (CAS No.: 142-28-9)	mg/kg	參考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
2,2-二氯丙烷 / 2,2-Dichloropropane (CAS No.: 594-20-7)	mg/kg	參考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
四氯甲烷(四氯化碳)/ Carbon tetrachloride (CAS No.: 56-23-5)	mg/kg	参考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-



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(廣東省惠州市博羅縣石灣鎮永石大道 / YONGSHI BOULEVARD SHIWAN TOWN BOLUO COUNTY HUIZHOU CITY GUANG DONG)

測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限値 (MDL)	結果 (Result) No.1	限値 (Limit)
氯乙烷 / Chloroethane (CAS No.: 75-00-3)	mg/kg	參考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
氣仿 / Chloroform (CAS No.: 67-66-3)	mg/kg	参考US EPA 5021方法,以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
氣甲烷 / Chloromethane (CAS No.: 74-87-3)	mg/kg	参考US EPA 5021方法,以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
順-1,2-二氯乙烯 / cis-1,2- Dichloroethene (CAS No.: 156-59-2)	mg/kg	參考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
順-1,3-二氯丙烯 / cis-1,3- Dichloropropene (CAS No.: 10061-01- 5)	mg/kg	參考US EPA 5021方法,以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
六氣丁二烯 / Hexachlorobutadiene (CAS No.: 87-68-3)	mg/kg	参考US EPA 5021方法,以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
二氯甲烷 / Dichloromethane (CAS No.: 75-09-2)	mg/kg	參考US EPA 5021方法,以氣相層析/質譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-

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測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限値 (MDL)	結果 (Result) No.1	限値 (Limit)
四氯乙烯 / Tetrachloroethene (CAS No.: 127-18-4)	mg/kg	参考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
反-1,2-二氯乙烯 / trans-1,2- Dichloroethene (CAS No.: 156-60-5)	mg/kg	参考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
反-1,3-二氯丙烯 / trans-1,3- Dichloropropene (CAS No.: 10061-02- 6)	mg/kg	參考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	-
三氯乙烯 / Trichloroethylene (CAS No.: 79-01-6)	mg/kg	參考US EPA 5021方法,以氣相層析/質 譜儀檢測. / With reference to US EPA 5021 method. Analysis was performed by GC/MS.	1	n.d.	I
石綿 / Asbestos					
陽起石綿 / Actinolite (CAS No.: 77536-66-4)			-	Negative	-
鐵石綿(褐石綿) / Amosite (CAS No.: 12172-73-5)		參考EPA 600/R-93/116 / 立體顯微鏡 (SM),分散染色式偏光顯微鏡 (DS-	-	Negative	-
斜方角閃石綿 / Anthophyllite (CAS No.: 77536-67-5)	- % W	PLM)及X光繞射光譜分析法 (XRD) / With reference to EPA 600/R-93/116	-	Negative	-
溫石綿(白石綿) / Chrysotile (CAS No.: 12001-29-5)		method. Analysis was performed by Stereo Microscope (SM), Dispersion Staining Polarized Light Microscope (DS-PLM) and X-ray Diffraction Spectrometer (XRD).	-	Negative	-
青石綿 / Crocidolite (CAS No.: 12001-28-4)			-	Negative	-
透閃石綿 / Tremolite (CAS No.: 77536-68-6)		The second of th	ı	Negative	1



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測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限値 (MDL)	結果 (Result) No.1	限値 (Limit)
多環芳香烴 / Polynuclear Aromatic Hydrocarbons (PAHs)					
芭 / Acenaphthene (CAS No.: 83-32-9)	mg/kg		0.2	n.d.	-
苊烯 / Acenaphthylene (CAS No.: 208-96- 8)	mg/kg		0.2	n.d.	-
蒽 / Anthracene (CAS No.: 120-12-7)	mg/kg	1	0.2	n.d.	-
苯駢蒽 / Benzo[a]anthracene (CAS No.: 56-55-3)	mg/kg		0.2	n.d.	-
苯駢(a)芘 / Benzo[a]pyrene (CAS No.: 50- 32-8)	mg/kg		0.2	n.d.	-
苯(b)苯駢芴 / Benzo[b]fluoranthene (CAS No.: 205-99-2)	mg/kg		0.2	n.d.	-
苯駢菲 / Benzo[g,h,i]perylene (CAS No.: 191-24-2)	mg/kg	参考ZLS standard ZEK 01.4-08方法,	0.2	n.d.	-
苯(k)苯駢芴 / Benzo[k]fluoranthene (CAS No.: 207-08-9)	mg/kg		0.2	n.d.	-
Chrysene (CAS No.: 218-01-9)	mg/kg	以氣相層析/質譜儀檢測./ With	0.2	n.d.	-
二苯駢蒽 / Dibenzo[a,h]anthracene (CAS No.: 53-70-3)	mg/kg	reference to ZLS standard ZEK 01.4–08 method. Analysis was	0.2	n.d.	-
苯駢芴 / Fluoranthene (CAS No.: 206-44- 0)	mg/kg	performed by GC/MS.	0.2	n.d.	-
芴 / Fluorene (CAS No.: 86-73-7)	mg/kg	1	0.2	n.d.	-
茚酮芘 / Indeno[1,2,3-c,d] pyrene (CAS No.: 193-39-5)	mg/kg		0.2	n.d.	-
萘 / Naphthalene (CAS No.: 91-20-3)	mg/kg	1	0.2	n.d.	-
菲 / Phenanthrene (CAS No.: 85-01-8)	mg/kg]	0.2	n.d.	İ
芘 / Pyrene (CAS No.: 129-00-0)	mg/kg		0.2	n.d.	Î
苯(j)苯駢芴 / Benzo[j]fluoranthene (CAS No.: 205-82-3)	mg/kg		0.2	n.d.	-
苯駢(e)芘 / Benzo[e]pyrene (CAS No.: 192-97-2)	mg/kg		0.2	n.d.	-
多環芳香烴18項總和 / Sum of 18 PAHs	mg/kg	1	_	n.d.	-

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) / NAN YA PLASTICS CORPORATION (TAIWAN)

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備註(Note):

- 1. mg/kg = ppm ; 0.1wt% = 1000ppm
- 2. n.d. = Not Detected (未檢出)
- 3. MDL = Method Detection Limit (方法偵測極限値)
- 4. "-" = Not Regulated (無規格值)
- 5. **= Qualitative analysis (No Unit) 定性分析(無單位)
- 6. Negative = Undetectable 陰性(未偵測到); Positive = Detectable 陽性(已偵測到)
- 7. 石綿定性分析試驗範圍: <0.1%~100%,石綿鑑定的判定基準是以檢出含有石綿纖維為『Positive』,未檢出石綿纖維為『Negative』。/ Testing range of asbestos qualitative analysis is from less than 0.1% to 100%. The judgment criterion: asbestos fibers being found is shown as "Positive"; asbestos fibers not being found is shown as "Negative".
- 8. ***: 該物質是由三丁基錫, 砷, 硼或鈹各别之測試結果計算得知. 其MDL是針對三丁基錫, 砷, 硼或鈹之評估. (The substance was calculated by the test results of Tributyl Tin, Arsenic, Boron or Beryllium respectively.)

 The MDL was evaluated for Tributyl Tin, Arsenic, Boron or Beryllium respectively.)
- 9. (*2): 水合硼酸鈉: 依照歐洲化學總署解釋以無水四硼酸二鈉數據作爲代表(歐洲化學總署回信編號 Ref no.: INC 000000032519) / Tetraboron disodium heptaoxide, hydrate: Only anhydrous form of disodium tetraborate is relevant and considered according to ECHA explanation (Ref no.: INC 000000032519).
- 10. (※2): 被萃取出的溶出硼/砷是以感應耦合電漿原子發射光譜儀檢測得之. / The extracted soluble Boron / Arsenic are detected by ICP-AES.
- 11. 參數換算表 / Parameter Conversion Table:
 Please refer to http://twap.sgs.com/sgsrsts/chn/download-REACH_tw.asp
- 12. 鈹青銅是一種主要成份爲鈹及銅的合金,當偵測不到總鈹含量時,亦表示不含鈹青銅. (Since beryllium copper is a metal alloy of copper and beryllium and the test result is n.d. for beryllium, we can have conclusion that the beryllium copper is n.d..)

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PAHs 参考資料 (Reference information):

依據ZEK 01.4-08之要求:產品中最大值為

(Requirement of ZEK 01.4-08: Restraining maximum values for products)

項目 (Parameter)	第1類 (Category 1)	第2類 (Category 2)	第3類 (Category 3)
	意圖放入嘴内的材料或與	可預見與皮膚接觸逾30秒	可預見與皮膚接觸短於30
	36個月以下的幼兒皮膚有	(長期與皮膚接觸), 以及	秒(短期與皮膚接觸),以
	所接觸的玩具.	不屬於第1類的材料.	及不屬於第1類或第2類的
	(Material indented to	(Materials not falling	材料. (Materials not
	be put in the mouth or	under category 1 with	falling under category
	toys for children aged	foreseeable contact to	1 or 2 with foreseeable
	< 36 months with	skin for longer than 30	contact to skin for
	intended skin contact.)	seconds (long-term skin	less than 30 seconds
		contact).)	(short-term skin
			contact).)
苯駢(a)芘	ZNDI (Z0 0)**	1	0.0
Benzo(a)pyrene (mg/kg)	<mdl (<0.2)**<="" td=""><td>1</td><td>20</td></mdl>	1	20
18項PAH總濃度			
(Sum of 18 PAH)	<mdl (<0.2)**<="" td=""><td>10</td><td>200</td></mdl>	10	200
(mg/kg)*			

注意(Remark):

(Only PAH substances >0.2 mg/kg are taken into account while calculating the sum of PAHs.)

** = 最大濃度值超出等級一的限制,但在等級二的濃度限制值内時,可能需要確認測試材質是否適用於與食品或與口腔黏膜接觸,並依照EN 1186 ff. and \S 64 LFBG 80.30-1方法,針對特定PAH的遷移測試進行測試。遷移測試的結論需依照食品規範評估。

(If the limits of category 1 are surpassed but the limits of category 2 still met, the confirmation of suitability of contact with foodstuff or the oral mucosa can be verified by an additional specific migration test of the PAH components according to EN 1186 ff. and § 64 LFBG 80.30-1. The results of the migration test shall be evaluated according to law criteria for foodstuff.)

^{* =} PAH濃度大於0.2mg/kg時,則須計算PAH總濃度值.



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PFOS参考資訊(Reference Information): 持久性有機污染物 POPs - (EU) 757/2010

PFOS濃度在物質或製備中不得超過0.001%(10ppm),在半成品、成品或零部件中不得超過0.1%(1000ppm),在紡織品或塗 層材料中不得超過1µg/m²。

(Outlawing PFOS as substances or preparations in concentrations above 0.001% (10ppm), in semi-finished products or articles or parts at a level above 0.1%(1000ppm), in textiles or other coated materials above $1\mu g/m^2$.)



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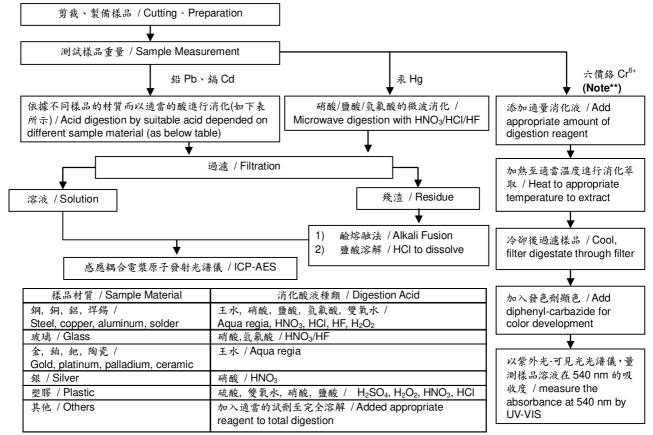
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- 1) 根據以下的流程圖之條件,樣品已完全溶解。(六價鉻測試方法除外) / These samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr⁶⁺ test method excluded)
- 2) 測試人員:楊登偉 / Name of the person who made measurement: Climbgreat Yang
- 3) 測試負責人:張啓興 / Name of the person in charge of measurement: Troy Chang



Note** (For IEC 62321)

- (1) 針對非金屬材料加入鹼性消化液,加熱至 90~95℃萃取. / For non-metallic material, add alkaline digestion reagent and heat to 90~95℃
- (2) 針對金屬材料加入純水,加熱至沸騰萃取. / For metallic material, add pure water and heat to boiling.



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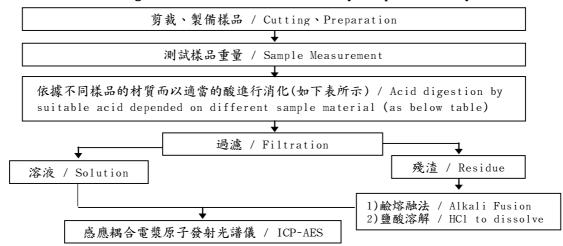
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- 1) 根據以下的流程圖之條件,樣品已完全溶解。 / These samples were dissolved totally by pre-conditioning method according to below flow chart.
- 2) 測試人員:楊登偉 / Name of the person who made measurement: Climbgreat Yang
- 3) 測試負責人:張啓興 / Name of the person in charge of measurement: Troy Chang

元素以 ICP-AES 分析的消化流程圖

(Flow Chart of digestion for the elements analysis performed by ICP-AES)



鋼,銅,鋁,焊錫 / Steel, copper, aluminum, solder	王水,硝酸,鹽酸,氫氟酸,雙氧水 /
	Aqua regia, HNO3, HC1, HF, H2O2
玻璃 / Glass	硝酸,氫氟酸 / HNO3/HF
金,鉑,鈀,陶瓷 / Gold, platinum, palladium, ceramic	王水 / Aqua regia
銀 / Silver	硝酸 / HNO3
塑膠 / Plastic	硫酸,雙氧水,硝酸,鹽酸 / H2SO4, H2O2, HNO3, HC1
其他 / Others	加入適當的試劑至完全溶解 / Added appropriate
	reagent to total digestion

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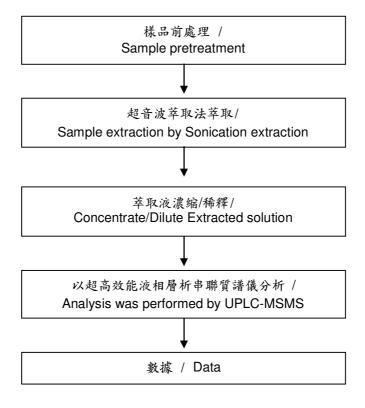
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雙酚A分析流程圖 / Bisphenol A analytical flow chart

- 測試人員:林建宇 / Name of the person who made measurement: Roy Lin
- 測試負責人:張啓興 / Name of the person in charge of measurement: Troy Chang

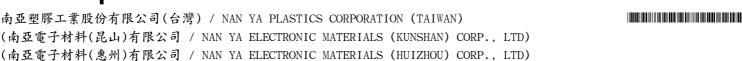


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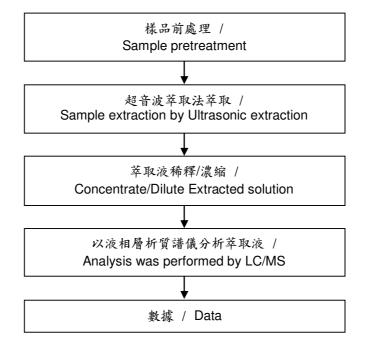


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四溴雙酚-A 分析流程圖 / TBBP-A analytical flow chart

- 測試人員:林建宇 / Name of the person who made measurement: Roy Lin
- 測試負責人:張啓興 / Name of the person in charge of measurement: Troy Chang





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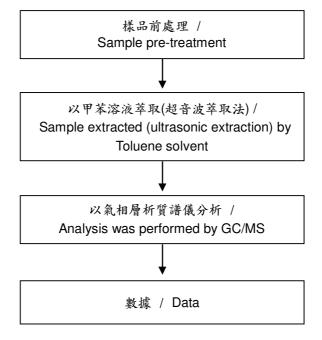
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多環芳香烴分析流程圖 / PAHs (Polynuclear Aromatic Hydrocarbons) analytical flow chart

- 測試人員: 翁賜彬 / Name of the person who made measurement: Roman Wong
- 測試負責人:張啓興 / Name of the person in charge of measurement: Troy Chang





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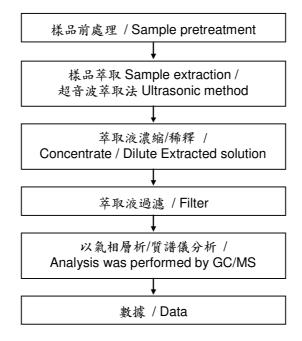
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乙二醇醚及其酯類分析流程圖 / Ethylene glycol ether analytical flow chart

- 測試人員:翁賜彬 / Name of the person who made measurement: Roman Wong
- 測試負責人:張啓興 / Name of the person in charge of measurement: Troy Chang





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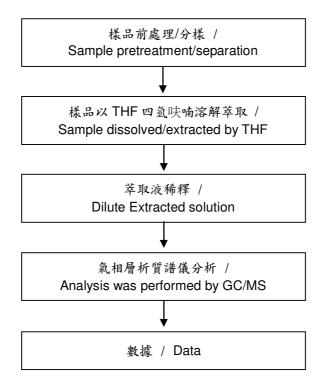
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可塑劑分析流程圖 / Analytical flow chart of phthalate content

- 測試人員:徐毓明 / Name of the person who made measurement: Andy Shu
- 測試負責人:張啓興 / Name of the person in charge of measurement: Troy Chang

【測試方法/Test method: IEC 62321-8】



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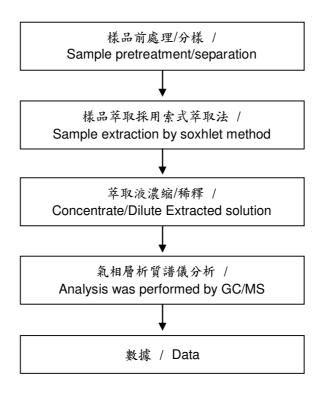
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可塑劑分析流程圖 / Analytical flow chart of phthalate content

- 測試人員:翁賜彬 / Name of the person who made measurement: Roman Wong
- 測試負責人:張啓興 / Name of the person in charge of measurement: Troy Chang

【測試方法/Test method: EN 14372】





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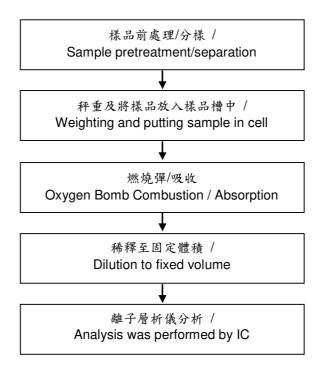
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鹵素分析流程圖 / Analytical flow chart of halogen content

- 測試人員:陳恩臻 / Name of the person who made measurement: Rita Chen
- 測試負責人:張啓興 / Name of the person in charge of measurement: Troy Chang





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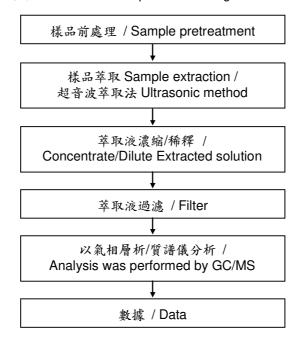


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六溴環十二烷分析流程圖 / HBCDD analytical flow chart

- 測試人員: 翁賜彬 / Name of the person who made measurement: Roman Wong
- 測試負責人:張啓興 / Name of the person in charge of measurement: Troy Chang





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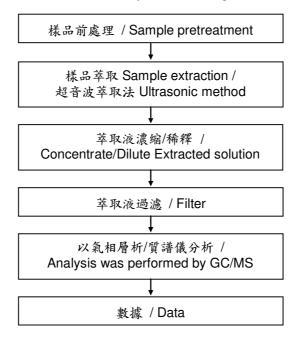
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富馬酸二甲酯分析流程圖 / Dimethyl Fumarate analytical flow chart

- 測試人員:翁賜彬 / Name of the person who made measurement: Roman Wong
- 測試負責人:張啓興 / Name of the person in charge of measurement: Troy Chang



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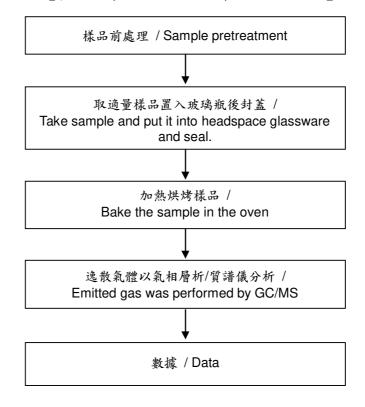
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揮發性有機化合物分析流程圖 / Analytical flow chart of volatile organic compounds (VOCs)

- 測試人員:吳椿景 / Name of the person who made measurement: Chun Wu
- 測試負責人: 陳新智 / Name of the person in charge of measurement: Shinjyh Chen

【参考方法(Reference method): US EPA 5021】





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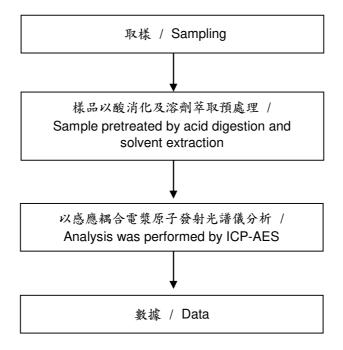
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二氯化鈷分析流程圖 / Analytical flow chart of Cobalt dichloride

- 測試人員:楊登偉 / Name of the person who made measurement: Climbgreat Yang
- 測試負責人:張啓興 / Name of the person in charge of measurement: Troy Chang



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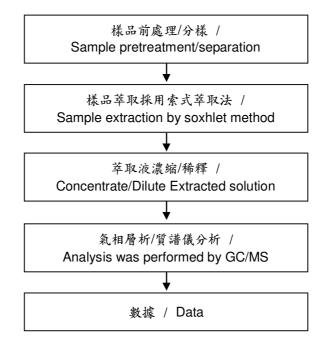
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苯並三唑類化合物分析流程圖 / Benzotriazole analytical flow chart

- 測試人員: 翁賜彬 / Name of the person who made measurement: Roman Wong
- 測試負責人:張啓興 / Name of the person in charge of measurement: Troy Chang





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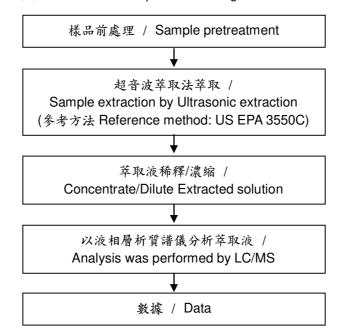
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全氟辛酸/全氟辛烷磺酸分析流程圖 / PFOA/PFOS analytical flow chart

- 測試人員: 翁賜彬 / Name of the person who made measurement: Roman Wong
- 測試負責人:張啓興 / Name of the person in charge of measurement: Troy Chang





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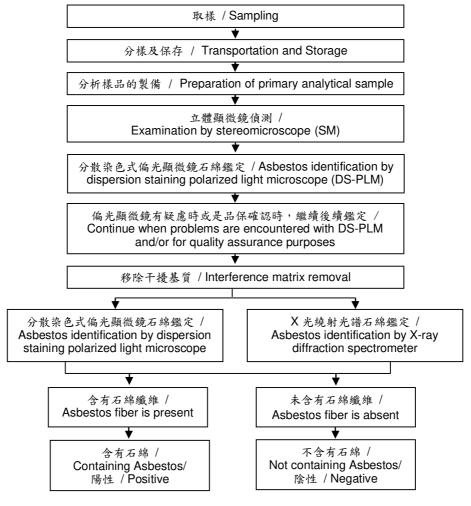
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石綿鑑定分析流程圖 / Analysis flow chart for determination of Asbestos

- 測試人員:高鍵忠 / Name of the person who made measurement: Victor Kao
- 測試負責人: 魏明芬 / Name of the person in charge of measurement: Wendy Wei

【参考方法(Reference method): EPA 600/R-93/116】



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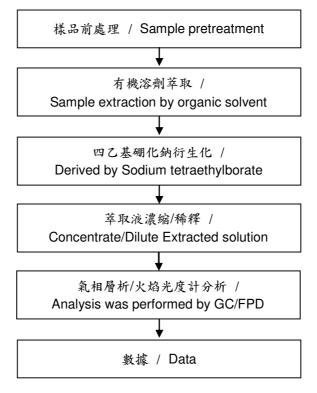
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有機錫分析流程圖 / Analytical flow chart of Organic-Tin content

- 測試人員:林建宇 / Name of the person who made measurement: Roy Lin
- 測試負責人:張啓興 / Name of the person in charge of measurement: Troy Chang



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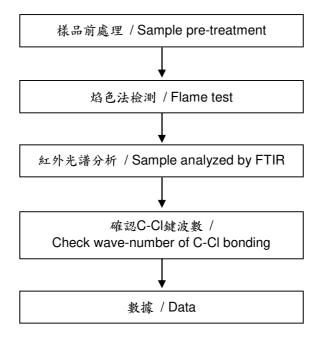
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聚氯乙烯物質判定分析流程圖 /

Analysis flow chart for determination of PVC in material

- 測試人員:林建宇 / Name of the person who made measurement: Roy Lin
- 測試負責人:張啓興 / Name of the person in charge of measurement: Troy Chang





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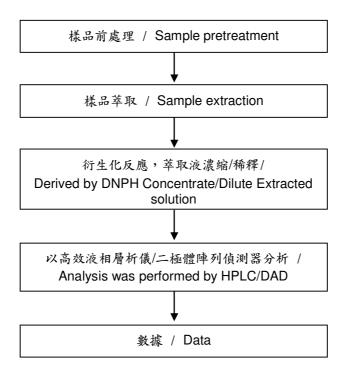


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甲醛分析流程圖 / Formaldehyde analytical flow chart

- 測試人員:涂雅苓 / Name of the person who made measurement: Yaling Tu
- 測試負責人:張啓興 / Name of the person in charge of measurement: Troy Chang





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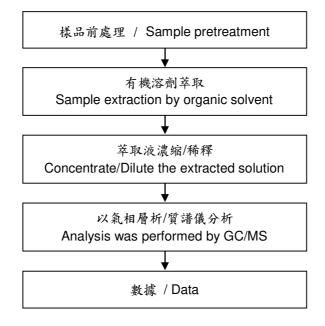
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氯化石蠟分析流程圖 / Chlorinated Paraffins analytical flow chart

- 測試人員:曾勃鈞 / Name of the person who made measurement: Barry Tseng
- 測試負責人:張啓興 / Name of the person in charge of measurement: Troy Chang



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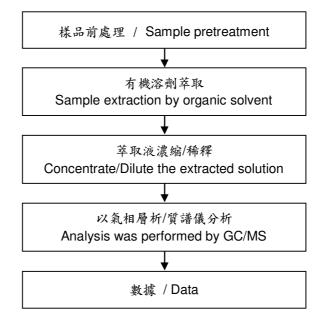
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多氯三聯苯分析流程圖 / PCTs analytical flow chart

- 測試人員: 曾勃鈞 / Name of the person who made measurement: Barry Tseng
- 測試負責人:張啓興 / Name of the person in charge of measurement: Troy Chang





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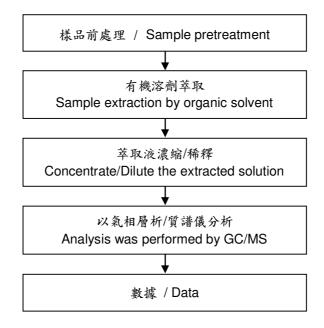


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多氯奈分析流程圖 / PCNs analytical flow chart

- 測試人員: 曾勃鈞 / Name of the person who made measurement: Barry Tseng
- 測試負責人:張啓興 / Name of the person in charge of measurement: Troy Chang





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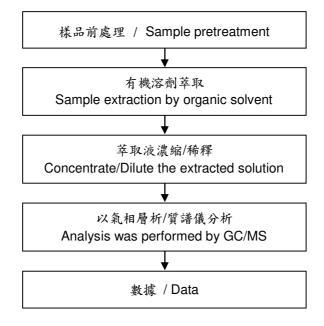
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多氯聯苯分析流程圖 / PCBs analytical flow chart

- 測試人員:曾勃鈞 / Name of the person who made measurement: Barry Tseng
- 測試負責人:張啓興 / Name of the person in charge of measurement: Troy Chang





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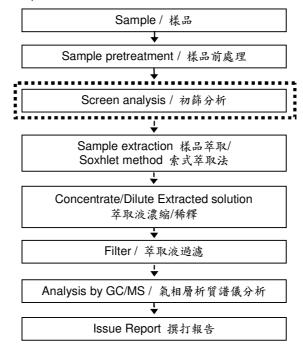
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多溴聯苯/多溴聯苯醚分析流程圖 / PBB/PBDE analytical FLOW CHART

- 測試人員: 翁賜彬 / Name of the person who made measurement: Roman Wong
- 測試負責人:張啓興 / Name of the person in charge of measurement: Troy Chang 初次測試程序 / First testing process —————

選擇性篩檢程序 / Optional screen process ••••••

確認程序 / Confirmation process - - - - ▶





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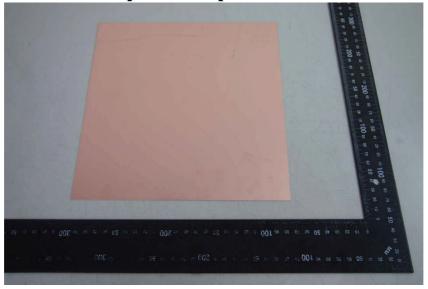
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(廣東省惠州市博羅縣石灣鎮永石大道 / YONGSHI BOULEVARD SHIWAN TOWN BOLUO COUNTY HUIZHOU CITY GUANG DONG)

* 照片中如有箭頭標示,則表示為實際檢測之樣品/部位. *

(The tested sample / part is marked by an arrow if it's shown on the photo.)

CE/2015/20344



** 報告結尾 (End of Report) **



Test Report No.: CE/2014/34748 Date: 2014/03/27 Page: 1 of 7

TAIWAN TAIYO INK CO., LTD.
NO. 7 TA TUNG SECOND RD. KUAN-YIN INDUSTRY PARK TAOYUAN
TAIWAN 328, R. O. C.

The following sample(s) was/were submitted and identified by/on behalf of the applicant as :

Sample Submitted By : TAIWAN TAIYO INK CO., LTD.

Sample Description : PHOTOIMAGEABLE SOLDER MASK

Style/Item No. : PSR-2000 LF02/CA-25 LF01

UL:PSR-2000BK/CA-25BK

Color : GREEN
Sample Receiving Date : 2014/03/20

Testing Period : 2014/03/20 TO 2014/03/27

Test Requested : (1) As specified by client, with reference to RoHS Directive 2011/65/EU Annex II to

determine Cadmium, Lead, Mercury, Cr(VI), PBBs, PBDEs contents in the submitted

sample.

(2) As specified by client, to test PFOA, PFOS contents in the submitted sample.

Test Method : Please refer to next page(s).

Test Result(s) : Please refer to next page(s).

Conclusion : (1) Based on the performed tests on submitted samples, the test results of Cadmium,

Lead, Mercury, Cr(VI), PBBs, PBDEs comply with the limits as set by RoHS Directive

2011/65/EU Annex II; recasting 2002/95/EC.



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TAIWAN TAIYO INK CO., LTD. NO. 7 TA TUNG SECOND RD. KUAN-YIN INDUSTRY PARK TAOYUAN TAIWAN 328, R. O. C.

Test Result(s)

PART NAME No.1 : GREEN INK

Test Item(s)	Unit	Method	MDL	Result	Limit
				No.1	Limit
Cadmium (Cd)	mg/kg	With reference to IEC 62321-5: 2013 and performed by ICP-AES.	2	n.d.	100
Lead (Pb)	mg/kg	With reference to IEC 62321-5: 2013 and performed by ICP-AES.	2	n.d.	1000
Mercury (Hg)	mg/kg	With reference to IEC 62321-4: 2013 and performed by ICP-AES.	2	n.d.	1000
Hexavalent Chromium Cr(VI)	mg/kg	With reference to IEC 62321: 2008 and performed by UV-VIS.	2	n.d.	1000
Perfluorooctane sulfonates (PFOS-Acid, Metal Salt, Amide)	mg/kg	With reference to US EPA 3550C: 2007. Analysis was performed by LC/MS.	10	n.d.	-
PFOA (CAS No.: 335-67-1)	mg/kg	With reference to US EPA 3550C: 2007. Analysis was performed by LC/MS.	10	n.d.	-
Sum of PBBs			-	n.d.	1000
Monobromobiphenyl			5	n.d.	-
Dibromobiphenyl			5	n.d.	-
Tribromobiphenyl		With reference to IEC 62321: 2008 and performed by GC/MS.	5	n.d.	-
Tetrabromobiphenyl			5	n.d.	-
Pentabromobiphenyl	mg/kg		5	n.d.	-
Hexabromobiphenyl			5	n.d.	-
Heptabromobiphenyl			5	n.d.	-
Octabromobiphenyl			5	n.d.	-
Nonabromobiphenyl			5	n.d.	-
Decabromobiphenyl			5	n.d.	-



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TAIWAN TAIYO INK CO., LTD.
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TAIWAN 328, R. O. C.

Test Item(s)	Unit	Method	MDL	Result	Limit
	Ullit			No.1	
Sum of PBDEs			-	n.d.	1000
Monobromodiphenyl ether			5	n.d.	-
Dibromodiphenyl ether		With reference to IEC 62321: 2008 and performed by GC/MS.	5	n.d.	-
Tribromodiphenyl ether			5	n.d.	-
Tetrabromodiphenyl ether			5	n.d.	-
Pentabromodiphenyl ether	mg/kg		5	n.d.	-
Hexabromodiphenyl ether			5	n.d.	-
Heptabromodiphenyl ether			5	n.d.	-
Octabromodiphenyl ether			5	n.d.	-
Nonabromodiphenyl ether			5	n.d.	-
Decabromodiphenyl ether			5	n.d.	-

Note:

- 1. mg/kg = ppm; 0.1wt% = 1000ppm
- 2. n.d. = Not Detected
- 3. MDL = Method Detection Limit
- 4. " " = Not Regulated

PFOS Reference Information: POPs - (EU) 757/2010

Outlawing PFOS as substances or preparations in concentrations above 0.001% (10ppm), in semi-finished products or articles or parts at a level above 0.1%(1000ppm), in textiles or other coated materials above $1\mu g/m^2$.



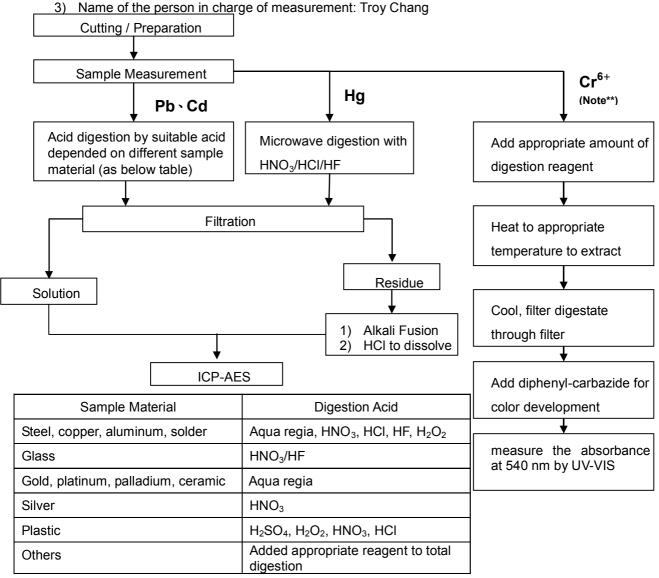
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TAIWAN TAIYO INK CO., LTD.
NO. 7 TA TUNG SECOND RD. KUAN-YIN INDUSTRY PARK TAOYUAN
TAIWAN 328, R. O. C.

- 1) These samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr⁶⁺ test method excluded)
- 2) Name of the person who made measurement: Climbgreat Yang



Note**: (1) For non-metallic material, add alkaline digestion reagent and heat to 90~95 ℃.

(2) For metallic material, add pure water and heat to boiling.



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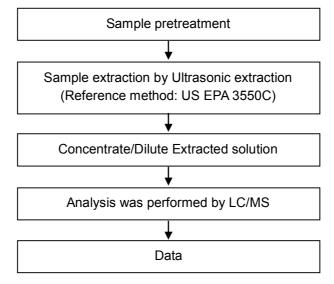
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TAIWAN TAIYO INK CO., LTD. NO. 7 TA TUNG SECOND RD. KUAN-YIN INDUSTRY PARK TAOYUAN TAIWAN 328, R. O. C.

PFOA/PFOS analytical flow chart of Ultrasonic extraction (LC/MS) procedure

- Name of the person who made measurement: Roman Wong
- Name of the person in charge of measurement: Troy Chang





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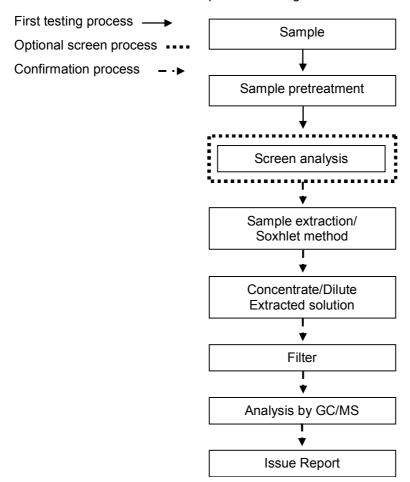
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TAIWAN TAIYO INK CO., LTD. NO. 7 TA TUNG SECOND RD. KUAN-YIN INDUSTRY PARK TAOYUAN TAIWAN 328, R. O. C.

PBB/PBDE analytical FLOW CHART

- Name of the person who made measurement: Roman Wong
- Name of the person in charge of measurement: Troy Chang





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TAIWAN TAIYO INK CO., LTD. NO. 7 TA TUNG SECOND RD. KUAN-YIN INDUSTRY PARK TAOYUAN TAIWAN 328, R. O. C.

* The tested sample / part is marked by an arrow if it's shown on the photo. *

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** End of Report **



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柔洋股份有限公司

LA MIEUX PRODUCTS CO., LTD.

新北市汐止區新台五路一段79號4樓之4

4F-4, NO. 79, SEC. 1, HSIN TAI WU RD., HSI-CHIH DIST., NEW TAIPEI CITY 22101, TAIWAN

以下測試樣品係由申請廠商所提供及確認 (The following sample(s) was/were submitted and identified by/on behalf of the applicant as):

送樣廠商(Sample Submitted By) : 柔洋股份有限公司 (LA MIEUX PRODUCTS CO., LTD.)

樣品名稱(Sample Description) : THERMELT ADHESIVE

樣品型號(Style/Item No.) : THERMELT 867B

收件日期(Sample Receiving Date) : 2014/02/07

測試期間(Testing Period) : 2014/02/07 TO 2014/02/14

測試結果(Test Results) : 請見下一頁 (Please refer to next pages).



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測試結果(Test Results)

測試部位(PART NAME)No.1 : 黑色塑膠粒 (BLACK PLASTIC PELLETS)

測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限値 (MDL)	結果 (Result) No.1
鎬 / Cadmium (Cd)	mg/kg	參考IEC 62321-5: 2013方法,以感應耦合 電漿原子發射光譜儀檢測./With reference to IEC 62321-5: 2013 and performed by ICP-AES.	2	n.d.
鉛 / Lead (Pb)	mg/kg	参考IEC 62321-5: 2013方法, 以感應耦合 電漿原子發射光譜儀檢測. / With reference to IEC 62321-5: 2013 and performed by ICP-AES.	2	n.d.
汞 / Mercury (Hg)	mg/kg	參考IEC 62321-4: 2013方法, 以感應耦合 電漿原子發射光譜儀檢測. / With reference to IEC 62321-4: 2013 and performed by ICP-AES.	2	n.d.
六價鉻 / Hexavalent Chromium Cr(VI)	mg/kg	参考IEC 62321: 2008方法,以UV-VIS檢測. / With reference to IEC 62321: 2008 and performed by UV-VIS.	2	n.d.
六溴環十二烷及所有主要被辨别出的 異構物 / Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified (α - HBCDD, β - HBCDD, γ - HBCDD) (CAS No.: 25637-99-4 and 3194-55-6 (134237-51-7, 134237-50-6, 134237-52-8))	mg/kg	参考IEC 62321: 2008方法,以氣相層析/質 譜儀檢測. / With reference to IEC 62321: 2008 method. Analysis was performed by GC/MS.	5	n.d.
鄰苯二甲酸甲苯基丁酯 / BBP (Benzyl butyl phthalate) (CAS No.: 85-68-7)	%	參考EN 14372, 以氣相層析/質譜儀檢測之. / With reference to EN 14372. Analysis was performed by GC/MS.	0.003	n.d.



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測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限値 (MDL)	結果 (Result) No.1
鄰苯二甲酸二 (2-乙基己基)酯 / DEHP (Di- (2-ethylhexyl) phthalate) (CAS No.: 117-81-7)	%	參考EN 14372, 以氣相層析/質譜儀檢測之. / With reference to EN 14372. Analysis was performed by GC/MS.	0.003	n.d.
鄰苯二甲酸二異癸酯 / DIDP (Di- isodecyl phthalate) (CAS No.: 26761-40-0; 68515-49-1)	%	參考EN 14372, 以氣相層析/質譜儀檢測之. / With reference to EN 14372. Analysis was performed by GC/MS.	0.01	n.d.
鄰苯二甲酸二異壬酯 / DINP (Di- isononyl phthalate) (CAS No.: 28553-12-0; 68515-48-0)	%	参考EN 14372, 以氣相層析/質譜儀檢測之. / With reference to EN 14372. Analysis was performed by GC/MS.	0.01	n.d.
鄰苯二甲酸二正辛酯 / DNOP (Di-n-octyl phthalate) (CAS No.: 117-84-0)	%	參考EN 14372, 以氣相層析/質譜儀檢測之. / With reference to EN 14372. Analysis was performed by GC/MS.	0.003	n.d.
鄰苯二甲酸二丁酯 / DBP (Dibutyl phthalate) (CAS No.: 84-74-2)	%	參考EN 14372, 以氣相層析/質譜儀檢測之. / With reference to EN 14372. Analysis was performed by GC/MS.	0.003	n.d.
多溴聯苯總和 / Sum of PBBs	mg/kg		-	n.d.
一溴聯苯 / Monobromobiphenyl	mg/kg		5	n.d.
二溴聯苯 / Dibromobiphenyl	mg/kg	İ	5	n.d.
三溴聯苯 / Tribromobiphenyl	mg/kg		5	n.d.
四溴聯苯 / Tetrabromobiphenyl	mg/kg	参考IEC 62321: 2008方法,以氣相層析/質	5	n.d.
五溴聯苯 / Pentabromobiphenyl	mg/kg	譜儀檢測. / With reference to IEC	5	n.d.
六溴聯苯 / Hexabromobiphenyl	mg/kg	62321: 2008 and performed by GC/MS.	5	n.d.
七溴聯苯 / Heptabromobiphenyl	mg/kg	†	5	n.d.
八溴聯苯 / Octabromobiphenyl	mg/kg	†	5	n.d.
九溴聯苯 / Nonabromobiphenyl	mg/kg	†	5	n.d.
十溴聯苯 / Decabromobiphenyl	mg/kg		5	n.d.



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4F-4, NO. 79, SEC. 1, HSIN TAI WU RD., HSI-CHIH DIST., NEW TAIPEI CITY 22101, TAIWAN

測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限値 (MDL)	結果 (Result) No.1
多溴聯苯醚總和 / Sum of PBDEs	mg/kg		-	n.d.
一溴聯苯醚 / Monobromodiphenyl ether	mg/kg		5	n.d.
二溴聯苯醚 / Dibromodiphenyl ether	mg/kg	参考IEC 62321: 2008方法,以氣相層析/質 譜儀檢測. / With reference to IEC 62321: 2008 and performed by GC/MS.	5	n.d.
三溴聯苯醚 / Tribromodiphenyl ether	mg/kg		5	n.d.
四溴聯苯醚 / Tetrabromodiphenyl ether	mg/kg		5	n.d.
五溴聯苯醚 / Pentabromodiphenyl ether	mg/kg		5	n.d.
六溴聯苯醚 / Hexabromodiphenyl ether	mg/kg		5	n.d.
七溴聯苯醚 / Heptabromodiphenyl ether	mg/kg		5	n.d.
八溴聯苯醚 / Octabromodiphenyl ether	mg/kg		5	n.d.
九溴聯苯醚 / Nonabromodiphenyl ether	mg/kg		5	n.d.
十溴聯苯醚 / Decabromodiphenyl ether	mg/kg		5	n.d.

備註(Note):

- 1. mg/kg = ppm ; 0.1wt% = 1000ppm
- 2. n.d. = Not Detected (未檢出)
- 3. MDL = Method Detection Limit (方法偵測極限值)
- 4. "-" = Not Regulated (無規格值)



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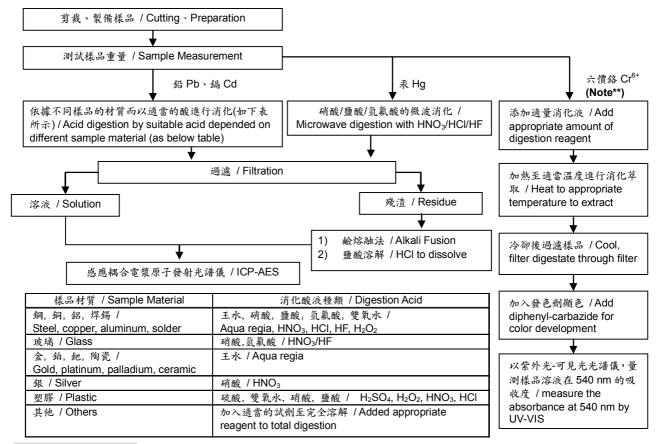
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4F-4, NO. 79, SEC. 1, HSIN TAI WU RD., HSI-CHIH DIST., NEW TAIPEI CITY 22101, TAIWAN

- 1) 根據以下的流程圖之條件,樣品已完全溶解。(六價鉻測試方法除外) / These samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr⁶⁺ test method excluded)
- 2) 測試人員:楊登偉 / Name of the person who made measurement: Climbgreat Yang
- 3) 测試負責人:張啓興 / Name of the person in charge of measurement: Troy Chang



Note** (For IEC 62321)

- (1) 針對非金屬材料加入鹼性消化液,加熱至 90~95℃萃取. / For non-metallic material, add alkaline digestion reagent and heat to 90~95℃.
- (2) 針對金屬材料加入純水,加熱至沸騰萃取. / For metallic material, add pure water and heat to boiling.

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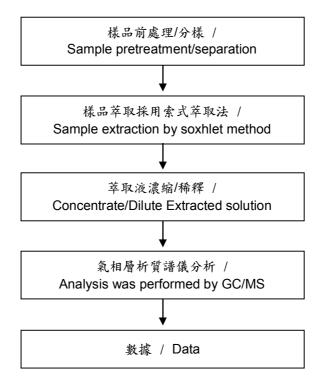
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可塑劑分析流程圖 / Analytical flow chart of phthalate content

- 測試人員:翁賜彬 / Name of the person who made measurement: Roman Wong
- 測試負責人:張啓興 / Name of the person in charge of measurement: Troy Chang





測試報告

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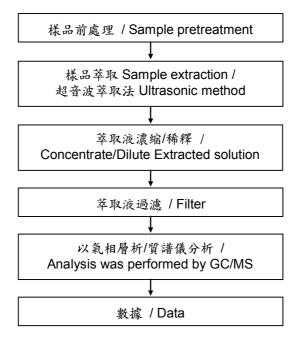
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4F-4, NO. 79, SEC. 1, HSIN TAI WU RD., HSI-CHIH DIST., NEW TAIPEI CITY 22101, TAIWAN

六溴環十二烷分析流程圖 / HBCDD analytical flow chart

- 測試人員:翁賜彬 / Name of the person who made measurement: Roman Wong
- 測試負責人:張啓興 / Name of the person in charge of measurement: Troy Chang



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測試報告

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LA MIEUX PRODUCTS CO., LTD.

新北市汐止區新台五路一段79號4樓之4

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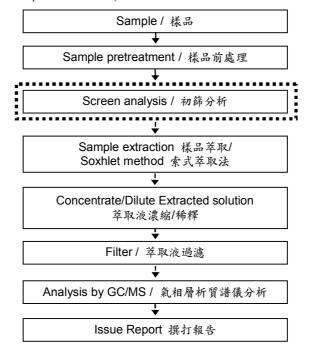
多溴聯苯/多溴聯苯醚分析流程圖 / PBB/PBDE analytical FLOW CHART

- 測試人員: 翁賜彬 / Name of the person who made measurement: Roman Wong
- 測試負責人:張啓興 / Name of the person in charge of measurement: Troy Chang

初次測試程序 / First testing process ————

選擇性篩檢程序 / Optional screen process ******

確認程序 / Confirmation process - - - - →



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測試報告

Test Report

號碼(No.): CE/2014/20824A 日期(Date): 2014/02/14 頁數(Page): 9 of 9

LA MIEUX PRODUCTS CO., LTD.

新北市汐止區新台五路一段79號4樓之4

4F-4, NO. 79, SEC. 1, HSIN TAI WU RD., HSI-CHIH DIST., NEW TAIPEI CITY 22101, TAIWAN

* 照片中如有箭頭標示,則表示為實際檢測之樣品/部位. *

(The tested sample / part is marked by an arrow if it's shown on the photo.)

CE/2014/20824



** 報告結尾 (End of Report) **

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Test Report No. CANEC1503027705 Date: 16 Mar 2015 Page 1 of 7

DING FENG PLASTICS METAL FACTORY

CHANG HSIANG VILLAGE, HENGLI TOWN, DONGGUAN CITY, GUANGDONG CHINA

The following sample(s) was/were submitted and identified on behalf of the clients as: PVC plastic grains

SGS Job No. : CP15-009381 - SZ

Client Ref. Info. : PVC Plastic grains

BLACK/WHITE/GRAY

Date of Sample Received: 09 Mar 2015

Testing Period : 09 Mar 2015 - 13 Mar 2015

Test Requested: Selected test(s) as requested by client.

Test Method: Please refer to next page(s).

Test Results: Please refer to next page(s).

Signed for and on behalf of SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch

中国·广州·经济技术开发区科学城科珠路198号

Almay Gao

Approved Signatory

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Test Report No. CANEC1503027705 Date: 16 Mar 2015 Page 2 of 7

Test Results:

Test Part Description:

Specimen No. SGS Sample ID Description

SN1 CAN15-030277.003 Black plastic grains+White plastic grains+Gray plastic grains

Remarks:

(1) 1 mg/kg = 1 ppm = 0.0001%

(2) MDL = Method Detection Limit

(3) ND = Not Detected (< MDL)

(4) "-" = Not Regulated

Elementary Analysis & Flame Retardants

Test Method: (1)With reference to IEC 62321-5:2013, determination of Cadmium by ICP-OES.

(2)With reference to IEC 62321-5:2013, determination of Lead by ICP-OES.

(3) With reference to IEC 62321-4:2013, determination of Mercury by ICP-OES.

(4) With reference to IEC 62321:2008, determination of Hexavalent Chromium by Colorimetric

Method using UV-Vis.

(5) With reference to IEC 62321:2008, determination of PBBs and PBDEs by GC-MS.

Test Item(s)	<u>Unit</u>	<u>MDL</u>	<u>003</u>
Cadmium (Cd)	mg/kg	2	ND
Lead (Pb)	mg/kg	2	ND
Mercury (Hg)	mg/kg	2	ND
Hexavalent Chromium (CrVI)	mg/kg	2	ND
Sum of PBBs	mg/kg	-	ND
Monobromobiphenyl	mg/kg	5	ND
Dibromobiphenyl	mg/kg	5	ND
Tribromobiphenyl	mg/kg	5	ND
Tetrabromobiphenyl	mg/kg	5	ND
Pentabromobiphenyl	mg/kg	5	ND
Hexabromobiphenyl	mg/kg	5	ND
Heptabromobiphenyl	mg/kg	5	ND
Octabromobiphenyl	mg/kg	5	ND
Nonabromobiphenyl	mg/kg	5	ND
Decabromobiphenyl	mg/kg	5	ND
Sum of PBDEs	mg/kg	-	ND
Monobromodiphenyl ether	mg/kg	5	ND



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Test Report	No. CANEC1503027705	Date:	16 Mar 2015	Page 3 of 7
Test Item(s)	<u>Unit</u>	<u>MDL</u>	<u>003</u>	
Dibromodiphenyl ether	mg/kg	5	ND	
Tribromodiphenyl ether	mg/kg	5	ND	
Tetrabromodiphenyl ether	mg/kg	5	ND	
Pentabromodiphenyl ether	mg/kg	5	ND	
Hexabromodiphenyl ether	mg/kg	5	ND	
Heptabromodiphenyl ether	mg/kg	5	ND	
Octabromodiphenyl ether	mg/kg	5	ND	
Nonabromodiphenyl ether	mg/kg	5	ND	
Decabromodiphenyl ether	mg/kg	5	ND	

Phthalate

Test Method: With reference to EN14372: 2004. Analysis was performed by GC-MS.

Test Item(s) Dibutyl Phthalate (DBP)	<u>CAS NO.</u> 84-74-2	<u>Unit</u> %(w/w)	MDL 0.003	<u>003</u> ND
Benzylbutyl Phthalate (BBP)	85-68-7	%(w/w)	0.003	ND
Bis(2-ethylhexyl) Phthalate (DEHP)	117-81-7	%(w/w)	0.003	0.007
Diisobutyl Phthalate (DIBP)	84-69-5	%(w/w)	0.003	ND

Notes:

Reference Information: Directive 2011/65/EU recasting RoHS directive 2002/95/EC and the latest amending directive:

- (1) Bis (2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), and Dibutyl phthalate (DBP) are considered as a priority for risk evaluation and substance restriction.
- (2) Bis (2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP) and Diisobutyl Phthalates (DIBP) have been adopted in the draft of Commission Delegated Directive amending Annex II to Directive 2011/65/EU of the European Parliament, and the regulatory limit of each restricted substances should be 0.1%.



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Test Report No. CANEC1503027705 Date: 16 Mar 2015 Page 4 of 7

Remark1: Results shown are of the total weight of mixed samples.

Remark2: The sample(s) was/were analyzed on behalf of the applicant as mixing sample in one testing. The

above result(s) was/were only given as the informality value and only for reference.



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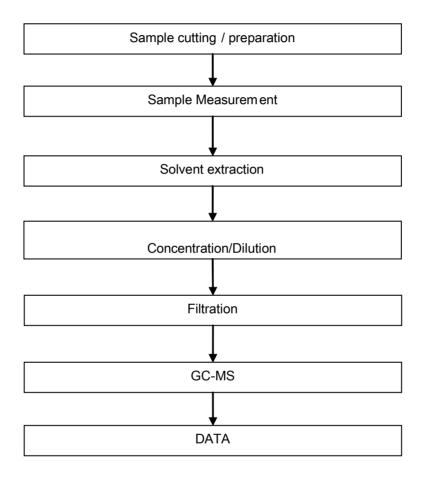
Page 5 of 7

Date: 16 Mar 2015

ATTACHMENTS

Phthalates Testing Flow Chart

- 1) Name of the person who made testing: Sunny Hu
- 2) Name of the person in charge of testing: Cutey Yu



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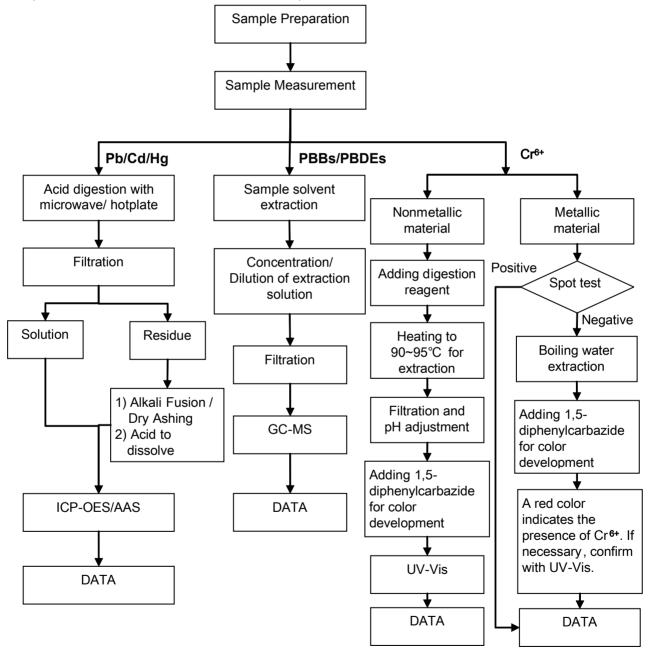
Page 6 of 7

Date: 16 Mar 2015

ATTACHMENTS

RoHS Testing Flow Chart

- 1) Name of the person who made testing: Bruce Xiao / Sunny Hu
- 2) Name of the person in charge of testing: Bella Wang / Cutey Yu
- 3) These samples were dissolved totally by pre -conditioning method according to below flow chart (Cr⁶⁺ and PBBs/PBDEs test method excluded).





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No. CANEC1503027705

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Date: 16 Mar 2015

Sample photo:



SGS authenticate the photo on original report only

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Test Report No. CANEC1503027707 Date: 16 Mar 2015 Page 1 of 6

DING FENG PLASTICS METAL FACTORY

CHANG HSIANG VILLAGE, HENGLI TOWN, DONGGUAN CITY, GUANGDONG CHINA

The following sample(s) was/were submitted and identified on behalf of the clients as: PE plastic grains

SGS Job No. : CP15-009381 - SZ

Client Ref. Info.: PE Plastic grains

TRANSPARENT

Date of Sample Received: 09 Mar 2015

Testing Period : 09 Mar 2015 - 13 Mar 2015

Test Requested: Selected test(s) as requested by client.

Test Method: Please refer to next page(s).

Test Results: Please refer to next page(s).

Signed for and on behalf of SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch

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Almay Gao

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Test Report No. CANEC1503027707 Date: 16 Mar 2015 Page 2 of 6

Test Results:

Test Part Description:

Specimen No. SGS Sample ID Description

SN1 CAN15-030277.004 White plastic grains

Remarks:

(1) 1 mg/kg = 1 ppm = 0.0001%

(2) MDL = Method Detection Limit

(3) ND = Not Detected (< MDL)

(4) "-" = Not Regulated

Elementary Analysis & Flame Retardants

Test Method: (1)With reference to IEC 62321-5:2013, determination of Cadmium by ICP-OES.

(2)With reference to IEC 62321-5:2013, determination of Lead by ICP-OES. (3)With reference to IEC 62321-4:2013, determination of Mercury by ICP-OES.

(4) With reference to IEC 62321:2008, determination of Hexavalent Chromium by Colorimetric

Method using UV-Vis.

(5) With reference to IEC 62321:2008, determination of PBBs and PBDEs by GC-MS.

Test Item(s)	<u>Unit</u>	<u>MDL</u>	<u>004</u>
Cadmium (Cd)	mg/kg	2	ND
Lead (Pb)	mg/kg	2	ND
Mercury (Hg)	mg/kg	2	ND
Hexavalent Chromium (CrVI)	mg/kg	2	ND
Sum of PBBs	mg/kg	-	ND
Monobromobiphenyl	mg/kg	5	ND
Dibromobiphenyl	mg/kg	5	ND
Tribromobiphenyl	mg/kg	5	ND
Tetrabromobiphenyl	mg/kg	5	ND
Pentabromobiphenyl	mg/kg	5	ND
Hexabromobiphenyl	mg/kg	5	ND
Heptabromobiphenyl	mg/kg	5	ND
Octabromobiphenyl	mg/kg	5	ND
Nonabromobiphenyl	mg/kg	5	ND
Decabromobiphenyl	mg/kg	5	ND
Sum of PBDEs	mg/kg	-	ND
Monobromodiphenyl ether	mg/kg	5	ND



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Test Report	No. CANEC1503027707	Date:	16 Mar 2015	Page 3 of 6
Test Item(s)	<u>Unit</u>	<u>MDL</u>	<u>004</u>	
Dibromodiphenyl ether	mg/kg	5	ND	
Tribromodiphenyl ether	mg/kg	5	ND	
Tetrabromodiphenyl ether	mg/kg	5	ND	
Pentabromodiphenyl ether	mg/kg	5	ND	
Hexabromodiphenyl ether	mg/kg	5	ND	
Heptabromodiphenyl ether	mg/kg	5	ND	
Octabromodiphenyl ether	mg/kg	5	ND	
Nonabromodiphenyl ether	mg/kg	5	ND	
Decabromodiphenyl ether	mg/kg	5	ND	

Phthalate

Test Method: With reference to EN14372: 2004. Analysis was performed by GC-MS.

Test Item(s) Dibutyl Phthalate (DBP)	<u>CAS NO.</u> 84-74-2	<u>Unit</u> %(w/w)	MDL 0.003	<u>004</u> ND
Benzylbutyl Phthalate (BBP)	85-68-7	%(w/w)	0.003	ND
Bis(2-ethylhexyl) Phthalate (DEHP)	117-81-7	%(w/w)	0.003	ND
Diisobutyl Phthalate (DIBP)	84-69-5	%(w/w)	0.003	ND

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Notes:

Reference Information: Directive 2011/65/EU recasting RoHS directive 2002/95/EC and the latest amending directive:

- (1) Bis (2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), and Dibutyl phthalate (DBP) are considered as a priority for risk evaluation and substance restriction.
- (2) Bis (2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP) and Diisobutyl Phthalates (DIBP) have been adopted in the draft of Commission Delegated Directive amending Annex II to Directive 2011/65/EU of the European Parliament, and the regulatory limit of each restricted substances should be 0.1%.



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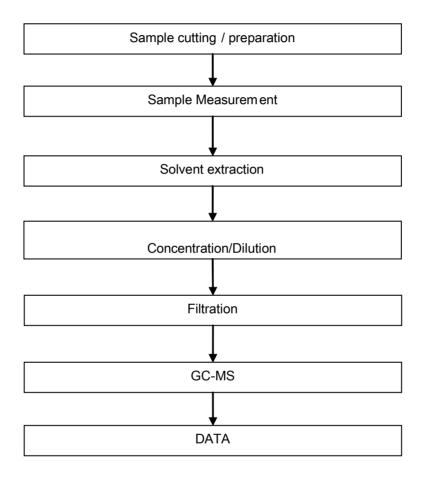
Page 4 of 6

Date: 16 Mar 2015

ATTACHMENTS

Phthalates Testing Flow Chart

- 1) Name of the person who made testing: Sunny Hu
- 2) Name of the person in charge of testing: Cutey Yu





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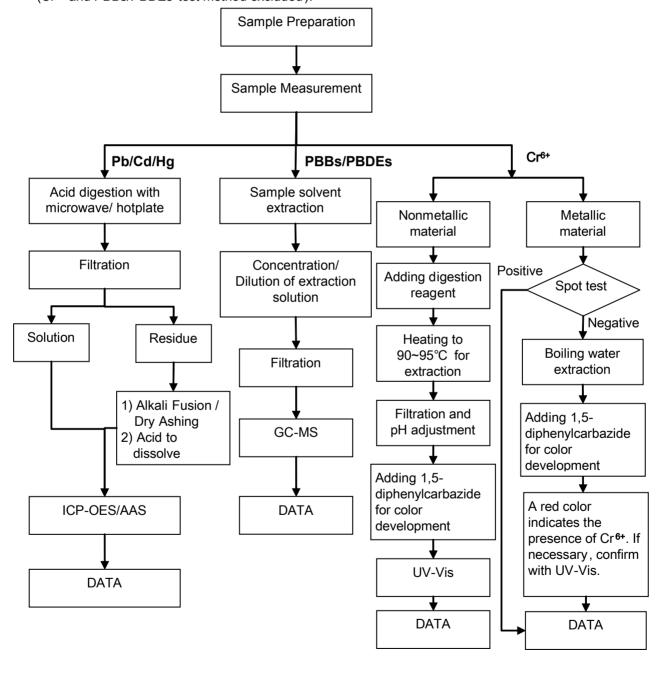
Page 5 of 6

Date: 16 Mar 2015

ATTACHMENTS

RoHS Testing Flow Chart

- 1) Name of the person who made testing: Bruce Xiao / Sunny Hu
- 2) Name of the person in charge of testing: Bella Wang / Cutey Yu
- 3) These samples were dissolved totally by pre -conditioning method according to below flow chart (Cr⁶⁺ and PBBs/PBDEs test method excluded).





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198 Kezhu Road,Scientech Park Guangzhou Economic & Technology Development District, Guangzhou, China 510663 t (86-20) 82155555 f (86-20) 82075113 www.sgsgroup.com.cn 中国・广州・经济技术开发区科学城科珠路198号 邮编: 510663 t (86-20) 82155555 f (86-20) 82075113 e sgs.china@sgs.com



No. CANEC1503027707

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Date: 16 Mar 2015

Sample photo:



SGS authenticate the photo on original report only

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No. CANEC1506705903

Date: 05 May 2015

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TAI FA PLASTICS PIGMENT CO., LTD

CHANG FA CHEMICAL FIBER CO.,LTD NO.9,SHAOBAI ROAD,XINTANG TOWN,ZENGCHENG CITY,GUANGZHOU,GUANG DONG P.R. CHINA

The following sample(s) was/were submitted and identified on behalf of the clients as: BLACK MASTER

BATCH

SGS Job No. : CP15-022863 - GZ

Date of Sample Received: 28 Apr 2015

Testing Period : 28 Apr 2015 - 05 May 2015

Test Requested: Selected test(s) as requested by client.

Test Method: Please refer to next page(s).

Test Results: Please refer to next page(s).

Conclusion: Based on the performed tests on submitted sample(s), the results of Lead,

Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBBs), Polybrominated diphenyl ethers (PBDEs) comply with the limits as set by RoHS

Directive 2011/65/EU Annex II; recasting 2002/95/EC.

Signed for and on behalf of SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch

Echo

Echo Yeung
Approved Signatory



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Test Results:

Test Part Description:

Specimen No. SGS Sample ID Description

SN1 CAN15-067059.003 Black master batch

Remarks:

(1) 1 mg/kg = 0.0001%

(2) MDL = Method Detection Limit

(3) ND = Not Detected (< MDL)

(4) "-" = Not Regulated

RoHS Directive 2011/65/EU

Test Method: (1)With reference to IEC 62321-5:2013, determination of Cadmium by ICP-OES.

(2)With reference to IEC 62321-5:2013, determination of Lead by ICP-OES. (3)With reference to IEC 62321-4:2013, determination of Mercury by ICP-OES.

(4) With reference to IEC 62321:2008, determination of Hexavalent Chromium by Colorimetric

Method using UV-Vis.

(5) With reference to IEC 62321:2008, determination of PBBs and PBDEs by GC-MS.

Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	
Cadmium (Cd)	100	mg/kg	2	ND
Lead (Pb)	1,000	mg/kg	2	28
Mercury (Hg)	1,000	mg/kg	2	ND
Hexavalent Chromium (CrVI)	1,000	mg/kg	2	ND
Sum of PBBs	1,000	mg/kg	-	ND
Monobromobiphenyl	-	mg/kg	5	ND
Dibromobiphenyl	-	mg/kg	5	ND
Tribromobiphenyl	-	mg/kg	5	ND
Tetrabromobiphenyl	-	mg/kg	5	ND
Pentabromobiphenyl	-	mg/kg	5	ND
Hexabromobiphenyl	-	mg/kg	5	ND
Heptabromobiphenyl	-	mg/kg	5	ND
Octabromobiphenyl	-	mg/kg	5	ND
Nonabromobiphenyl	-	mg/kg	5	ND
Decabromobiphenyl	-	mg/kg	5	ND
Sum of PBDEs	1,000	mg/kg	-	ND
Monobromodiphenyl ether	-	mg/kg	5	ND



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Test Report	No. CANEC1506705903	Date: 05 May 2015	Page 3 of 8
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Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	
Dibromodiphenyl ether	-	mg/kg	5	ND
Tribromodiphenyl ether	-	mg/kg	5	ND
Tetrabromodiphenyl ether	-	mg/kg	5	ND
Pentabromodiphenyl ether	-	mg/kg	5	ND
Hexabromodiphenyl ether	-	mg/kg	5	ND
Heptabromodiphenyl ether	-	mg/kg	5	ND
Octabromodiphenyl ether	-	mg/kg	5	ND
Nonabromodiphenyl ether	-	mg/kg	5	ND
Decabromodiphenyl ether	-	mg/kg	5	ND

Notes:

(1) The maximum permissible limit is quoted from the directive 2011/65/EU, Annex II.

Hexabromocyclododecane (HBCDD)

Test Method: Determination of HBCDD by GC-MS based on IEC 62321:2008.

Test Item(s)	<u>Unit</u>	<u>MDL</u>	
Hexabromocyclododecane (HBCDD)	mg/kg	10	ND

Phthalate

Test Method: Determination of phthalates by GC-MS based on EN 14372:2004.

Test Item(s)	CAS NO.	<u>Unit</u>	<u>MDL</u>	
Dibutyl Phthalate (DBP)	84-74-2	%(w/w)	0.003	ND
Benzylbutyl Phthalate (BBP)	85-68-7	%(w/w)	0.003	ND
Bis(2-ethylhexyl) Phthalate (DEHP)	117-81-7	%(w/w)	0.003	ND
Diisobutyl Phthalate (DIBP)	84-69-5	%(w/w)	0.003	ND

Notes:



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Reference Information: Directive 2011/65/EU recasting RoHS directive 2002/95/EC and the latest amending directive:

- (1) Bis (2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), and Dibutyl phthalate (DBP) are considered as a priority for risk evaluation and substance restriction.
- (2) Bis (2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP) and Diisobutyl Phthalates (DIBP) have been adopted in the draft of Commission Delegated Directive amending Annex II to Directive 2011/65/EU of the European Parliament, and the regulatory limit of each restricted substances should be 0.1%.



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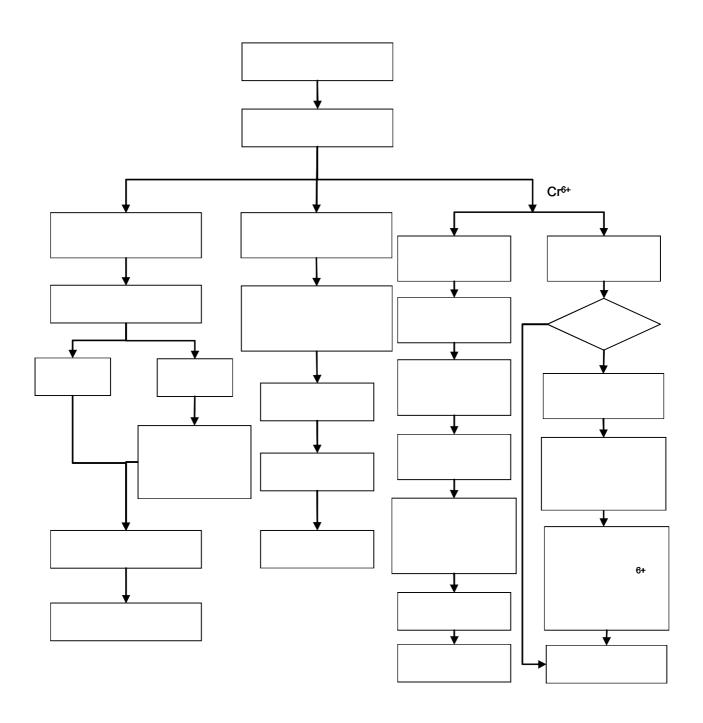


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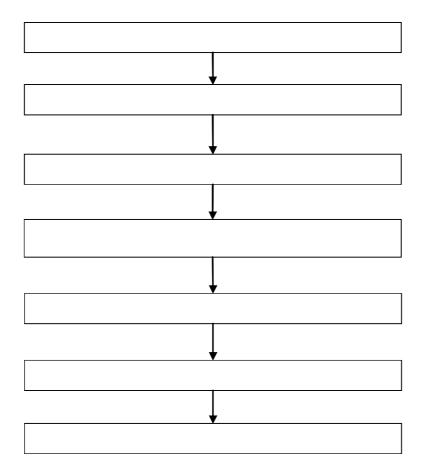


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Phthalates Testing Flow Chart





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Date: 05 May 2015

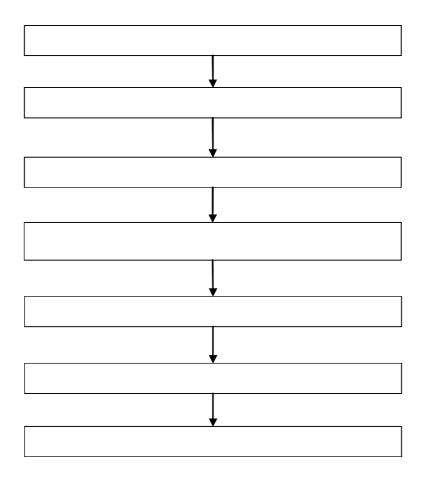
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HBCDD Testing Flow Chart





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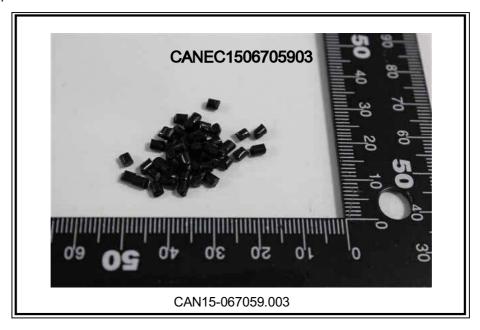




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Date: 05 May 2015 Page 8 of 8

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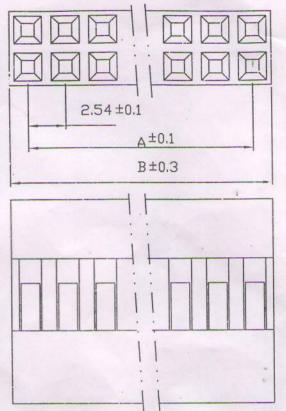


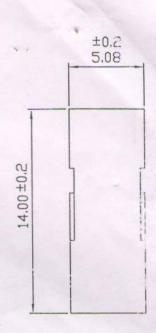
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.C.I.

VER-CONN 2562 SERIES





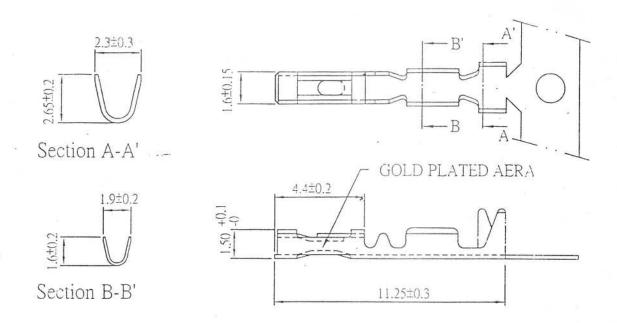
10.	A	B
02	2.54	5.08
03	5.08	7.62
04	7.62	10.16
05	10.16	12.70
06	12,70	15.24
07	15.24	17.78
08	17.78	20,32
09	50.35	22.86
10	22.86	25.40
11	25,40	27.94
	03 04 05 06 07 08 09	02 2.54 03 5.08 04 7.62 05 10.16 06 12.70 07 15.24 08 17.78 09 20.32 10 22.86

PART NO.	A	В
2562- 12	27.94	30,48
2562- 13	30.48	33.02
2562- 14	33,02	35,56
2562- 15	35.56	38.10
2562- 16	38.10	40.64
2562- 17	40.64	43.18
2562- 18	43.18	45.72
2562- 19	45.72	48.26
2562- 20	48.26	50.80

2-20 CIRCUITS MAT'L PBT MATES WITH: 2563 TERMINAL ACCEPTS WITH: 2543 2545 SERIES WAFER TEMPERATURE RANGE: -25°C TO +85°C CURRENT RATING: 3A AC, DC VOLTAGE RATING: 250V AC, DC SGS REPORT NO:PX/2000/0010602



2563 SERIES



2563 SERIES

MAT'L:2563 BRASS 2563P PHOSPHOR BRONZE

TREATMENT: GOLD PLATED OVER NIKEL OR TIN PLATED BEFORE STAMPING

MATES WITH: 2561 & 2561H-04K SERIES HOUSING

ACCEPTS WITH: 2540 2541 2543 2545 SERIES WAFER

ACCEPTS WITH: 2561PS-04K 2561PR-04K WAFER

MATES: 0.64(.025") SQUIRE PIN OR ROUND PIN

WIRE RANGE:AWG# 24-26

CSA FILE NO.:LR84767

備註 REMAR	RKS RE	EV 0	· · · · · · · · · · · · · · · · · · ·	A							
								TITLE	MATERIA	L	FINISH
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TYPE ±0.2 ±0.3 PARTITION 1-10 10-20			0	旗欣股份有限公司				DATE		DWG NO.	
			G	ルチハ人(D EVER CONNEC			04.	09.10		2563	



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ECBT2.E115256 Connectors for Use in Data, Signal, Control and Power Applications - Component

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Connectors for Use in Data, Signal, Control and Power Applications - Component

See General Information for Connectors for Use in Data, Signal, Control and Power Applications - Component

EVER-CONN INDUSTRIAL CO LTD

E115256

1 LANE 91 PEN CHOU RD

KANGSHAN, KAOHSIUNG HSIEN 820 TAIWAN

Connectors, Model(s) 1510H--02 thru 1510H-13, 1510PR-02 thru 1510PR-13, 1510PS- 02 thru 1510PS-13, 2001PS-02 thru 2001PS-40, 2002PS-02 thru 2002PS-40, 2003PR-02 thru 2003PR-40, 2004PR-02 thru 2004PR-40, 2010R-02 thru 2010R-15, 2031H-02 thru 2031H-40, 2032H-02 thru 2032H-40, 2040H-02 thru 2040H-15, 2501CH-02 thru 2501CH-18, 2501H-02 thru 2501PR-02 thru 2501PR-02 thru 2501PS-02 thru 2501PS-20, 2520R-02 thru 2520R-15, 2530-02 thru 2530-20, 2532-02 thru 2532-20, 2533-02 thru 2533-20, 2542H-02 thru 2542PR-02 thru 2542PR-02 thru 2542PR-02 thru 2561PR-04K-02 thru 2561PS-04K-02 thru 2561PS-04K-15, 2561PS-04K-02 thru 2561PS-04K-15

2562H, followed by 04, 06, 08, 10, 12, 14, 16, 18, 20, 22, 24, 26, 28, 30, 32, 34, 36, 38, 40, 42, 44, 46, 48, 50, 52, 54, 56, 58, 60, 62, 64, 66, 68, 70, 72, 74, 76, 78 or 80, followed by A or blank.

2570H-02 thru 2570H-15, 2570PR-02 thru 2570PR-15, 2570PS-02 thru 2570PS-15, 2580H-02 thru 2580H-15, 2580PR-02 thru 2580PS-15, 2601CH-02 thru 2601CH-18

3015H, followed by -02 thru -12, followed by S or SE.

3015H, followed by -02, -04, -06, -08, -10, -12, -14, -16, -18, -20, -22 or -24, followed by E or blank.

3015PR, followed by -02 thru -12, followed by S.

3015PR, followed by -02, -04, -06, -08, -10, -12, -14, -16, -18, -20, -22 or -24.

3015PS, followed by -02 thru -12, followed by S.

3015PS, followed by -02, -04, -06, -08, -10, -12, -14, -16, 18, -20, -22 or -24.

3016H, followed by -02 thru -12, followed by S.

3016H, followed by -02, -04, -06, -08, -10, -12, -14, -16, -18, -20, -22 or -24.

4001H, 4001PS, 5015H-02(1*2), 5015H-02E(1*2), 5015H-2x-01P thru 5015H-2x-12P, 5015PR-02(1*2), 5015PR-2x-01P thru 5015PR-2x-12P, 5015PR-02(1*2), 5015PS-2x-01P thru 5015PS-2x-12P, 5016H-02(1*2), 5016H-2x-01P thru 5016H-2x-12P, 7521H-01, 8396H-02 thru 8396H-14, 8508H-02 thru 8508H-12, 8613H-04, 8625H, 8639-02 thru 8639-20, 8673-02 thru 8673-20, 8674-02 thru 8674-20, D181H-02 thru D181H-15, DAM-TK-NF, DAS-TK-NF, DBM-TK-NF, DBS-TK-NF, DCH-15P, DCH-15S, DCH-25P, DCH-25S, DCH-9P, DCH-9S, DHM-TK-NF, DHS-TK-NF, DIM-TK-NF, DIS-TK-NF

DMR, followed by -9, -15, -25, -37 or -H15, followed by P or S, may be followed by -02

E020H-01, E020H-02, E020H-03, E020H-04, E020H-06, E020H-09, E020H-12, E020H-15, E021H-01, E021H-02(1X2), E021H-03(1X3), E021H-04(1X4), E021H-05(1X5), E021H-06(3X2), E021H-09(3X3), E021H-12(3X4), E021H-15(3X5), E120H-01, E120H-02, E120H-03, E120H-04, E120H-06, E120H-09, E120H-12, E120H-15, E121H-01, E121H-02(1X2), E121H-03(1X3), E121H-04(1X4), E121H-05(1X5), E121H-06(3X2), E121H-09(3X3), E121H-12(3X4), E121H-15(3X5)

Female connectors 1081-01 thru 1081-06 and Mating pin headers 1081-01 thru 1081-06 or 1081-01L thru 1081-06L.

Female connectors 250H-02 thru 250H-20 and Mating pin headers 250PR-02 thru 250PR -20 or 250PS-02 thru 250PS.

Female connectors 2510-02 thru 2510-21 and Mating pin headers 2600PR-02 thru 2600PR -20 or 2600PS-02 thru 2600PS-20.

Female connectors 2550-02 thru 2550-25 and Mating pin headers 2540-02 thru 2540-40 or 2541-02 thru 2541-40.

Female connectors 2551-04 thru 2551-54 and Mating pin headers 2543-02 thru 2543-40 or 2545-02 thru 2545-40.

Female connectors 3095-06 thru 3095-12 and Mating pin headers 3096-06 thru 3096-12.

Female connectors 3960-02 thru 3960-11 and Mating pin headers 3961-02 thru 3961-11 or 3962-02 thru 3962-11.

Female connectors 5080-02 thru 5080-15 and Mating pin headers 5081-02 thru 5081-15, 5082-02 thru 5082-15, 5083-02 thru 5083-15 or 5084-02 thru 5084-15.

Female connectors 7500-02 thru 7500-10 and Mating pin headers 7501-02 thru 7501-10, 7502-02 thru 7503-02 thru 7503-10 or 7504-02 thru 7504-10.

Female connectors 7550-01 thru 7550-06 and Mating pin headers 7551-01 thru 7551-06 or 7551-01L thru 7551-06L.

Female connectors 8620-4 and Mating pin headers 8621-4 or 8622-4.

Female connectors 8639-02 thru 8639-21 or 8669-02 thru 8669-20 and Mating pin headers 8673-02 thru 8673-20, 8674-02 thru 8674-20, 8675-02 thru 8675-20 or 8676-02 thru 8676-20.

Female header connectors 2021-02 thru 2021-20 or 2022-02 thru 2022-20 and Mating connectors 2020-02 thru 2020-20.

M125H-02 thru M125H-15, M125PR-02 thru M125PR-15, M125PS-02 thru 1M125PS-15

Crimp terminal housings, Model(s) 2520-02 thru 2520-20

Female connectors, Model(s) 2010-02 thru 2010-16

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model designation on the device or carton

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东莞市美塑塑料科技有限公司

东莞市寮步镇泉塘工业区曲岭二路 11号

DONGGUAN PLENTY POLYMERIC TECHNOLOGY CO.,LTD

NO.11 QULING, QUANTANG MANAGEMENT DISTRICT, LIAOBU TOWN, DONGGUAN CITY, GUANGDONG

TEL: +86-769-81259959

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MATERIAL FORMULATION CONFIDENTIAL REPORT

SUPPLIER: 东莞美塑塑料科技有限公司

TYPE OF MATRIAL: PBT(Poly Butylene Terephthalate)聚丁烯对苯二甲酸酯

Specification: PBT Bogen206

Description: PBT Bogen206 复合材料包含 PBT 树脂、玻璃纤维、阻燃剂、其它。

The raw material of PBT-Bogen206 compound contains PBT pure resin, glass fiber,

flame retardant, and additives.

PBT 复合材料成分表

Chemical Composition of PBT Compound

	规格 Grade			CAS Number& Content		
	组成 Chemical omposition	Molecular Formula	CAS Number	含量(%) Content(%)		
1	PBT 树脂 PBT Resin	(CH ₂ -CH ₂ -CH ₂ -CH ₂ -O-C-O-C ₀) N	26062-94-2	52~63		
2	玻璃纤维 Glass Fiber	SiO ₂ · CaO · Al ₂ O ₃	65997-17-3	10~30		
3	阻燃剂 Flame Retardant	$C_{21}H_6Br_9N_3O_3$	25713-60-4	12~15		
4	色母 Few of Additives			0.5		





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旗欣股份有限公司

EVER CONNECTOR INDUSTRIAL CO., LTD

高雄市岡山區本洲路91巷1號

NO.1 LANE 91 PEN CHOU RD. KANGSHAN KAOHSIUNG CITY TAIWAN R.O.C.

以下測試樣品係由客户送樣,且由客户聲稱並經客户確認如下

(The following samples was/were submitted and identified by/on behalf of the client as):

樣品名稱(Sample Description) : PBT

收件日期(Sample Receiving Date) : 2014/12/27

測試期間(Testing Period) : 2014/12/27 TO 2015/01/05

送樣廠商(Sample Submitted By) : 旗欣股份有限公司 (EVER CONNECTOR INDUSTRIAL CO., LTD)

測試結果(Test Results)

: 請見下一頁 (Please refer to next pages).

Ray Chang Ph.D. / Man Signed for and on behal **SGS Taiwan Limited** Chemical Laboratory-Ka

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測試結果(Test Results)

測試部位(PART NAME) NO.1 : 黑色 PBT (BLACK PBT)

測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限値 (MDL)	結果 (Result) NO.1
鹵素 / Halogen				
鹵素 (氟) / Halogen-Fluorine (F) (CAS No.: 014762-94-8)	mg/kg	參考BS EN 14582:2007, 以離子層析儀分析./ With reference to PS EN 14582:2007. Analysis was performed by IC.	50	n.d.
鹵素 (氣) / Halogen-Chlorine (C1) (CAS No.: 022537-15-1)	mg/kg	参考BS EN 14582:2007, 以離子層析儀分析. / With reference to BS EN 14582:2007. Analysis was performed by IC.	50	n.d.
鹵素 (溴) / Halogen-Bromine (Br) (CAS No.: 010097-32-2)	mg/kg	参考BS EN 14582:2007, 以離子層析儀分析. / With reference to BS EN 14582:2007. Analysis was performed by IC.	50	90.4
鹵素(碘)/ Halogen-Iodine (I) (CAS No.: 014362-44-8)	mg/kg	参考BS EN 14582:2007, 以離子層析儀分析. / With reference to BS EN 14582:2007. Analysis was performed by IC.	50	n.d.

備註(Note):

- 1. mg/kg = ppm ; 0.1wt% = 1000ppm
- 2. n.d. = Not Detected (未檢出)
- 3. MDL = Method Detection Limit (方法偵測極限值)

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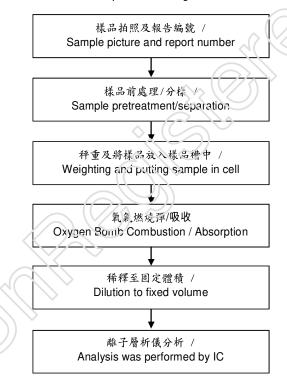
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鹵素分析流程圖 / Analytical flow chart of halogen content

- 1) 測試人員:洪秀眞/ Name of the person who made measurement: Jean Hung
- 2) 測試負責人:張伯睿/ Name of the person in charge of measurement: Ray Chang



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* 照片中如有箭頭標示,則表示為實際檢測之樣品/部位. * (The tested sample / part is marked by an arrow if it's shown on the photo.)

KA/2014/C2293



** 報告結尾(End of Report) **

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樣品名稱(Sample Description) 收件日期(Sample Receiving Date)

測試期間(Testing Period)

送樣廠商(Sample Submitted By)

: TERMINAL-BRASS

: 2014/12/27

: 2014/12/27 TO 2015/01/05

: 旗欣股份有限公司 (EVER CONNECTOR INDUSTRIAL CO., LTD)

測試結果(Test Results)

: 請見下一頁 (Please refer to next pages).

Ray Chang Ph.D. / Manager Signed for and on behalf & **SGS Taiwan Limited**

Chemical Laboratory-Kaohsiung

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<u>測試結果(Test Results)</u>

測試部位(PART NAME) NO.1 整體混測:TERMINAL-BRASS (MIXED ALL PARTS:TERMINAL-BRASS)

測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限値 (MDL)	結果 (Result) NO.1
鎬 / Cadmium (Cd)	mg/kg	参考IEC 62321-5: 2013方法, 以感應耦合電 漿原子發射光譜儀檢測. / With reference to IEC 62321-5: 2013 and performed by ICP-AES.	2	n.d.
鉛 / Lead (Pb)	mg/kg	參考IEC 62321-5: 2013方法, 以感應耦合電 漿原子發射光譜儀檢測. / With reference to IEC 62321-5: 2013 and performed by ICP-AES.	2	6.03
汞 / Mercury (Hg)	mg/kg	參考IEC 62321-4: 2013方法, 以感應耦合電 漿原子發射光譜儀檢測. / With reference to IEC 62321-4: 2013 and performed by ICP-AES.	2	n.d.
六價鉻 / Hexavalent Chromium Cr(VI) by boiling water extraction#	**	参考IEC 62321: 2008方法,用 boiling water extraction方法檢測. / With reference to IEC 62321: 2008 and performed by boiling water extraction Method.	0.02mg/kg with 50 cm ² surface area	Negative
全氟辛烷磺酸 / Perfluorooctane sulfonates (PFOS - Acid, Metal Salt, Amide)	mg/kg	参考US EPA 3550C: 2007方法,以液相層析/質譜儀檢測. / With reference to US EPA 3550C: 2007. Analysis was performed by LC/MS.	10	n.d.
全氟辛酸(銨) / PFOA (CAS No.: 335-67-1)	mg/kg	參考US EPA 3550C: 2007方法,以液相層析/質譜儀檢測. / With reference to US EPA 3550C: 2007. Analysis was performed by LC/MS.	10	n.d.

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測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	方法偵測 極限値 (MDL)	結果 (Result) NO.1
多溴聯苯總和 / Sum of PBBs			-	n.d.
一溴聯苯 / Monobromobiphenyl			5	n.d.
二溴聯苯 / Dibromobiphenyl			5	n.d.
三溴聯苯 / Tribromobiphenyl			5	n.d.
四溴聯苯 / Tetrabromobiphenyl		参考IEC 62321: 2008方法, 以氣相層析儀/質	5	n.d.
五溴聯苯 / Pentabromobiphenyl	mg/kg	譜儀檢測. / With reference to IEC 62321:	5	n.d.
六溴聯苯 / Hexabromobiphenyl		2008 and performed by GC/MS.	5	n.d.
七溴聯苯 / Heptabromobiphenyl			5	n.d.
八溴聯苯 / Octabromobiphenyl			5	n.d.
九溴聯苯 / Nonabromobiphenyl			5	n.d.
十溴聯苯 / Decabromobiphenyl			5	n.d.
多溴聯苯醚總和 / Sum of PBDEs			-	n.d.
一溴聯苯醚 / Monobromodiphenyl ether			5	n.d.
二溴聯苯醚 / Dibromodiphenyl ether			5	n.d.
三溴聯苯醚 / Tribromodiphenyl ether			5	n.d.
四溴聯苯醚 / Tetrabromodiphenyl ether		参考IEC 62321: 2008方法, 以氣相層析儀/質	5	n.d.
五溴聯苯醚 / Pentabromodiphenyl ether	mg/kg	譜儀檢測. / With reference to IEC 62321:	5	n.d.
六溴聯苯醚 / Hexabromodiphenyl ether		2008 and performed by GC/MS.	5	n.d.
七溴聯苯醚 / Heptabromodiphenyl ether			5	n.d.
八溴聯苯醚 / Octabromodiphenyl ether	_		5	n.d.
九溴聯苯醚 / Nonabromodiphenyl ether			5	n.d.
十溴聯苯醚 / Decabromodiphenyl ether			5	n.d.

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NO.1 LANE 91 PEN CHOU RD. KANGSHAN KAOHSIUNG CITY TAIWAN R.O.C.

備註(Note):

- 1. mg/kg = ppm ; 0.1wt% = 1000ppm
- 2. n.d. = Not Detected (未檢出)
- 3. MDL = Method Detection Limit (方法偵測極限值)
- 4. "-" = Not Regulated (無規格值)
- 5. **= Qualitative analysis (No Unit) 定性分析(無單位)
- 6. # = a. Positive means the presence of CrVI on the tested areas (Positive表示測試區域偵測到六價鉻)
 - b. Negative means the absence of CrVI on the tested areas (Negative表示測試區域未偵測到六價鉻)

The detected concentration in boiling-water-extraction solution is equal or greater than 0.02 mg/kg with 50 \mbox{cm}^2 tested areas . / 該溶液濃度≧0.02 mg/kg with 50 cm² (tested areas)

7. 樣品的測試是基於申請人要求混合測試,報告中的混合測試結果不代表其中個别單一材質的含量.

(The samples was/were analyzed on behalf of the applicant as mixing sample in one testing. The above results was/were only given as the informality value.)

PFOS参考資訊(Reference Information): 持久性有機污染物 POPs - (EU) 757/2010

PFOS濃度在物質或製備中不得超過0.001%(10ppm),在半成品、成品或零部件中不得超過0.1%(1000ppm),在紡織品或塗層材料中不 得超過1µg/m²。(Outlawing PFOS as substances or preparations in concentrations above 0.001% (10ppm), in semifinished products or articles or parts at a level above 0.1%(1000ppm), in textiles or other coated materials above $1\mu g/m^2$.)

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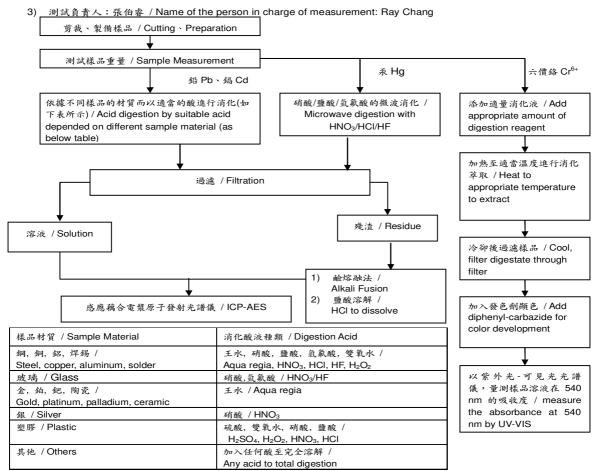
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EVER CONNECTOR INDUSTRIAL CO., LTD

高雄市岡山區本洲路91巷1號

NO.1 LANE 91 PEN CHOU RD. KANGSHAN KAOHSIUNG CITY TAIWAN R.O.C.

- 1) 根據以下的流程圖之條件,樣品已完全溶解。(六價鉻測試方法除外) / These samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr⁶⁺ test method excluded)
- 2) 测試人員:劉俊宏 / Name of the person who made measurement: Jony Liu



Note**: (1) 針對非金屬材料加入鹼性消化液,加熱至 90~95℃萃取. / For non-metallic material, add alkaline digestion reagent and heat to $90\sim95^{\circ}$ C.

(2) 針對金屬材料加入純水,加熱至沸騰萃取. / For metallic material, add pure water and heat to boiling.

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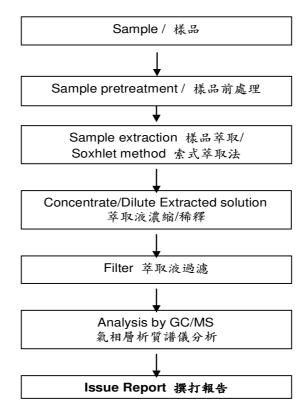
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多溴聯苯/多溴聯苯醚 分析流程圖 / PBB/PBDE analytical FLOW CHART

1)测試人員:陳威錚 / Name of the person who made measurement: Dorothy Chen 2)測試負責人:張伯睿 / Name of the person in charge of measurement: Ray Chang



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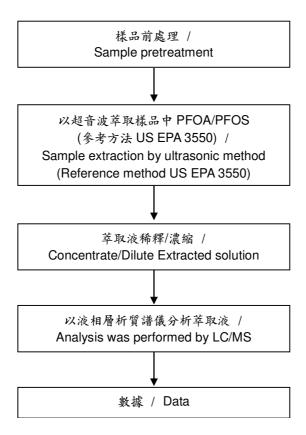
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全氟辛酸(銨)/ 全氟辛烷磺酸分析流程圖 / Analytical flow chart of PFOA/PFOS content

1)測試人員: 黄璟瓔 / Name of the person who made measurement: Ginny Huang

2)測試負責人:張伯睿 / Name of the person in charge of measurement: Ray Chang



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> * 照片中如有箭頭標示,則表示為實際檢測之樣品/部位. * (The tested sample / part is marked by an arrow if it's shown on the photo.)

KA/2014/C2296



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东莞市千岛金属锡品有限公司

Thousand Island Metal Foil Co.,Ltd.

产品检验报告书

产品。	名称		无铅锡线	A F	羊品规格	Sn	99.3/Cu0.7	7	检验	验依据	GB/T3131-2001		
	生产	产日期		20	009-02-08		试样编号		NC		D.2008121333A		
序号	1		检测项目		技术要求		检测样品数		检测结果		单项结论		
1			外表质量	<u>.</u>	光亮平整		各一个	\	光亮	亳平整	合	合格	
2		尺寸 (mm)		1)	Ø1.0±	0.02	5 米			1.0	合格		
3			熔点(℃)	220-2	230	1KG		2	227	合	格	
4		电图	阻率(Ωcn	n^2/m)	≤0.1	77	3米		().05	合	格	
5		烂	旱剂含量(%)	1.5-1	.7	3 米		1	1.62	合	格	
6			扩展率(%	%)	>8	5	3 米			96	合	格	
7			干燥度		粉沫易	易去	5 块		粉》	末易去	合	格	
8		丝	色缘电阻(Ω)	≥10)11	5 块]	10 ¹¹	合格		
9	9 PH 值			6-7	,	3 次		6.7		合格			
10	10 焊锡环			不飞	溅	5 块		不飞溅		合格			
11	铜镜试验		<u>^</u>	无穿透性	性腐蚀	3 块		不腐蚀		合格			
	元素	名称	Sn	Cu	Pb	Bi	As	Sb		Zn	Al	Fe	
(GB/T3131) 检验依据		≳成份 /t%)	99.0-99.6	0.65-0.75	0.01	0.01	0.02	0.05	5	0.005	0.005	0.02	
化据	实测	结果	99.3	0.69	0.0009	0.0007	0.0028	0.00	13	0.0007	0.0006	0.008	
	单项	5 结论	合格	合格	合格	合格	合格	合格	各	合格	合格	合格	
检 验 结 论	经检测,所有项目都符合标准要求。 千岛金属锡品有限公司						Ī						
签			主 检			编	制			批	准		
名			黄信元		熊 慧				刘曙光				
日期		2009	年02月0	8日	20	2009年02月08日			2009年02月08日				



Test Report No. CANEC1417822706 Date: 06 Nov 2014 Page 1 of 8

THOUSAND ISLAND METAL FOIL CO., LTD
BLOCK FIFTEEN NEW SUN INDUSTRIAL AREA TANGXIA TOWN, DONGGUAN CITY

The following sample(s) was/were submitted and identified on behalf of the clients as: Solder wire

Sn99.3Cu0.7

SGS Job No.: CP14-057422 - SZ

Model No.: 107 Client Ref. Info.: 107H

Date of Sample Received: 30 Oct 2014

Testing Period: 30 Oct 2014 - 05 Nov 2014

Test Requested : Selected test(s) as requested by client.

Test Method : Please refer to next page(s).

Test Results : Please refer to next page(s).

Conclusion: Based on the performed tests on submitted sample(s), the results of Lead,

Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBBs), Polybrominated diphenyl ethers (PBDEs) comply with the limits as set by RoHS

Directive 2011/65/EU Annex II; recasting 2002/95/EC.

Signed for and on behalf of SGS-CSTC Ltd.

Yan Lee

Approved Signatory



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No. CANEC1417822706

Date: 06 Nov 2014

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Test Results:

Test Part Description:

Specimen No. SGS Sample ID Description
SN1 CAN14-178227.006 Silvery metal wire

Remarks:

(1) 1 mg/kg = 1 ppm = 0.0001%

(2) MDL = Method Detection Limit

(3) ND = Not Detected (< MDL)

(4) "-" = Not Regulated

RoHS Directive 2011/65/EU

Test Method: (1)With reference to IEC 62321-5:2013, determination of Cadmium by ICP-OES.

(2)With reference to IEC 62321-5:2013, determination of Lead by ICP-OES. (3)With reference to IEC 62321-4:2013, determination of Mercury by ICP-OES.

(4) With reference to IEC 62321:2008, determination of Hexavalent Chromium by spot test /

Colorimetric Method using UV-Vis.

(5) With reference to IEC 62321:2008, determination of PBBs and PBDEs by GC-MS.

Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>006</u>
Cadmium (Cd)	100	mg/kg	2	ND
Lead (Pb)	1,000	mg/kg	2	46
Mercury (Hg)	1,000	mg/kg	2	ND
Hexavalent Chromium (CrVI)	-	-	\Diamond	Negative
Sum of PBBs	1,000	mg/kg	-	ND
Monobromobiphenyl	-	mg/kg	5	ND
Dibromobiphenyl	-	mg/kg	5	ND
Tribromobiphenyl	-	mg/kg	5	ND
Tetrabromobiphenyl	-	mg/kg	5	ND
Pentabromobiphenyl	-	mg/kg	5	ND
Hexabromobiphenyl	-	mg/kg	5	ND
Heptabromobiphenyl	-	mg/kg	5	ND
Octabromobiphenyl	-	mg/kg	5	ND
Nonabromobiphenyl	-	mg/kg	5	ND
Decabromobiphenyl	-	mg/kg	5	ND
Sum of PBDEs	1,000	mg/kg	-	ND
Monobromodiphenyl ether	-	mg/kg	5	ND



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Test Report	No. CANEC14178227	No. CANEC1417822706			Page 3 of 8
Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>006</u>	
Dibromodiphenyl ether	-	mg/kg	5	ND	
Tribromodiphenyl ether	-	mg/kg	5	ND	
Tetrabromodiphenyl ether	-	mg/kg	5	ND	
Pentabromodiphenyl ether	-	mg/kg	5	ND	
Hexabromodiphenyl ether	-	mg/kg	5	ND	
Heptabromodiphenyl ether	-	mg/kg	5	ND	
Octabromodiphenyl ether	-	mg/kg	5	ND	
Nonabromodiphenyl ether	-	mg/kg	5	ND	
Decabromodiphenyl ether	-	mg/kg	5	ND	

Notes:

- (1) The maximum permissible limit is quoted from the directive 2011/65/EU, Annex II
- (2) Spot-test:

Negative = Absence of CrVI coating, Positive = Presence of CrVI coating;

(The tested sample should be further verified by boiling-water-extraction method if the spot test result is Negative or cannot be confirmed.)

◇Boiling-water-extraction:

Negative = Absence of CrVI coating

Positive = Presence of CrVI coating; the detected concentration in boiling-water-extraction solution is equal or greater than 0.02 mg/kg with 50 cm2 sample surface area.

Information on storage conditions and production date of the tested sample is unavailable and thus results of Cr(VI) represent status of the sample at the time of testing.

Hexabromocyclododecane (HBCDD)

Test Method: Determination of HBCDD by GC-MS based on IEC 62321:2008.

Test Item(s)	<u>Unit</u>	<u>MDL</u>	<u>006</u>
Hexabromocyclododecane (HBCDD)	mg/kg	10	ND

Notes:

 Reference Information: Directive 2011/65/EU recasting RoHS directive 2002/95/EC: Hexabromocyclododecane (HBCDD) is considered as a priority for risk evaluation and substance restriction.

Phthalate

Test Method: Determination of phthalates by GC-MS based on EN 14372:2004.



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Test Report	No. CANEC14178227	Date: 06	6 Nov 2014	Page 4 of 8	
<u>Test Item(s)</u> Dibutyl Phthalate (DBP)	<u>CAS NO.</u> 84-74-2	<u>Unit</u> %(w/w)	MDL 0.003	<u>006</u> ND	
Benzylbutyl Phthalate (BBP)	85-68-7	%(w/w)	0.003	ND	
Bis(2-ethylhexyl) Phthalate (DEHP)	117-81-7	%(w/w)	0.003	ND	

Notes:

(1) Reference Information: Directive 2011/65/EU recasting RoHS directive 2002/95/EC: Bis (2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP) and Dibutyl phthalate (DBP) are considered as a priority for risk evaluation and substance restriction.



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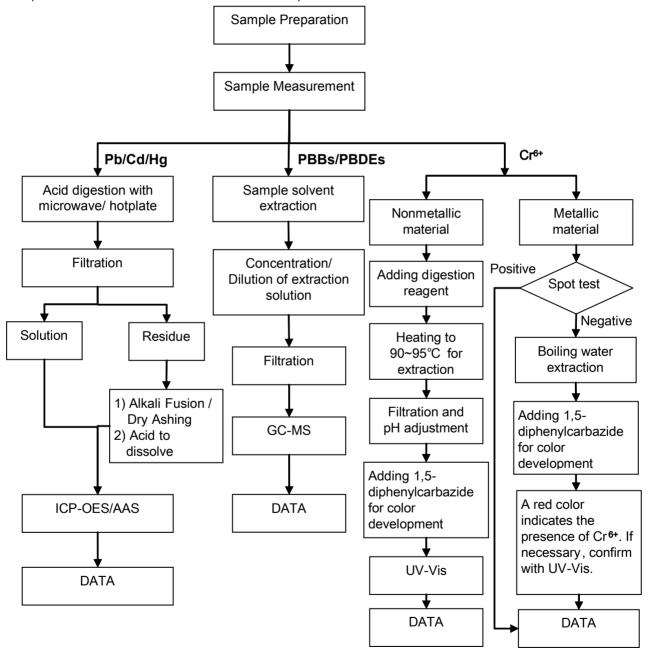
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Date: 06 Nov 2014

ATTACHMENTS

RoHS Testing Flow Chart

- 1) Name of the person who made testing: Bruce Xiao / Sunny Hu
- 2) Name of the person in charge of testing: Bella Wang / Cutey Yu
- 3) These samples were dissolved totally by pre -conditioning method according to below flow chart (Cr⁶⁺ and PBBs/PBDEs test method excluded).





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No. CANEC1417822706

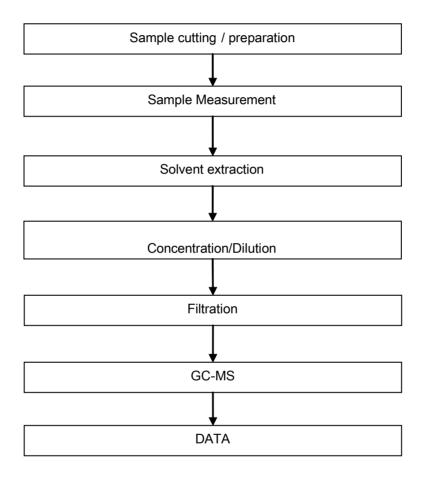
Page 6 of 8

Date: 06 Nov 2014

ATTACHMENTS

HBCDD Testing Flow Chart

- 1) Name of the person who made testing: Sunny Hu
- 2) Name of the person in charge of testing: Cutey Yu





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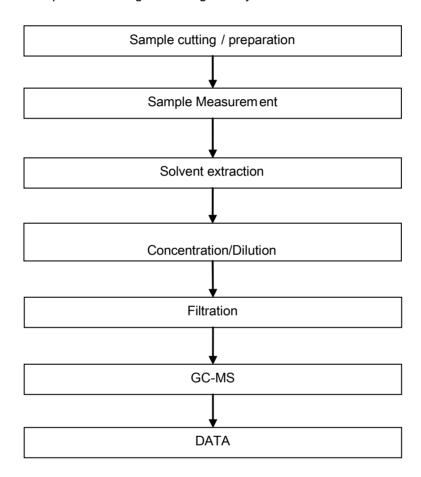
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Date: 06 Nov 2014

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Phthalates Testing Flow Chart

- 1) Name of the person who made testing: Sunny Hu
- 2) Name of the person in charge of testing: Cutey Yu





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No. CANEC1417822706

Page 8 of 8

Date: 06 Nov 2014

Sample photo:



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材 料 成 分 表

公司名称: 展兴机械有限公司

兹证明提供 公司: 热缩套管

由以下主要材料成分组成:

原材料	出比	原材料	原材料制	物质		物质	2	物质	3	物质	4	物质	5	物质	6
名称	例		造供应商	名称	构成 比率	名称	构成 比率	名称	构成 比率	名称	构成 比率	名称	构成 比率	名称	构成 比率
PE	70%	北京	北京有机	EVA	100%										
阻燃剂	15%	山西	山西铝粉	AL(OH)3	99%										
阻燃剂	13%	佛山	佛山金戈	Mg(OH)2	99%										
色母粒	2%	四川	成都新彩	PE	70%	色粉	30%								



Test Report No. CANEC1505019605 Date: 13 Apr 2015 Page 1 of 9

SHENZHEN WOER HEAT-SHRINKABLE MATERIAL CO.,LTD.

WOER MANSION,LANJING NORTH ROAD,PINGSHAN INDUSTRIAL ZONE,LONGGANG DISTRICT,SHENZHEN
CHINA

The following sample(s) was/were submitted and identified on behalf of the clients as : H-CLEAR RSFR HEAT SHRINKABLE TUBINGS

SGS Job No.: CP15-017309 - SZ

Date of Sample Received : 07 Apr 2015

Testing Period : 07 Apr 2015 - 13 Apr 2015

Test Requested: Selected test(s) as requested by client.

Test Method: Please refer to next page(s).

Test Results: Please refer to next page(s).

Conclusion: Based on the performed tests on submitted sample(s), the results of Lead,

Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBBs), Polybrominated diphenyl ethers (PBDEs) comply with the limits as set by RoHS

Directive 2011/65/EU Annex II; recasting 2002/95/EC.

Signed for and on behalf of SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch

Alkene Liang Approved Signatory



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Test Report No. CANEC1505019605 Date: 13 Apr 2015 Page 2 of 9

Test Results:

Test Part Description:

Specimen No. SGS Sample ID Description
SN1 CAN15-050196.002 Transparent tube

Remarks:

(1) 1 mg/kg = 1 ppm = 0.0001%

(2) MDL = Method Detection Limit

(3) ND = Not Detected (< MDL)

(4) "-" = Not Regulated

RoHS Directive 2011/65/EU

Test Method: (1)With reference to IEC 62321-5:2013, determination of Cadmium by ICP-OES.

(2)With reference to IEC 62321-5:2013, determination of Lead by ICP-OES. (3)With reference to IEC 62321-4:2013, determination of Mercury by ICP-OES.

(4) With reference to IEC 62321:2008, determination of Hexavalent Chromium by Colorimetric

Method using UV-Vis.

(5) With reference to IEC 62321:2008, determination of PBBs and PBDEs by GC-MS.

Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>002</u>
Cadmium (Cd)	100	mg/kg	2	ND
Lead (Pb)	1,000	mg/kg	2	ND
Mercury (Hg)	1,000	mg/kg	2	ND
Hexavalent Chromium (CrVI)	1,000	mg/kg	2	ND
Sum of PBBs	1,000	mg/kg	-	ND
Monobromobiphenyl	-	mg/kg	5	ND
Dibromobiphenyl	-	mg/kg	5	ND
Tribromobiphenyl	-	mg/kg	5	ND
Tetrabromobiphenyl	-	mg/kg	5	ND
Pentabromobiphenyl	-	mg/kg	5	ND
Hexabromobiphenyl	-	mg/kg	5	ND
Heptabromobiphenyl	-	mg/kg	5	ND
Octabromobiphenyl	-	mg/kg	5	ND
Nonabromobiphenyl	-	mg/kg	5	ND
Decabromobiphenyl	-	mg/kg	5	ND
Sum of PBDEs	1,000	mg/kg	-	ND
Monobromodiphenyl ether	-	mg/kg	5	ND



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Test Report	No. CANEC15050196	No. CANEC1505019605			Page 3 of 9
Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>002</u>	
Dibromodiphenyl ether	-	mg/kg	5	ND	
Tribromodiphenyl ether	-	mg/kg	5	ND	
Tetrabromodiphenyl ether	-	mg/kg	5	ND	
Pentabromodiphenyl ether	-	mg/kg	5	ND	
Hexabromodiphenyl ether	-	mg/kg	5	ND	
Heptabromodiphenyl ether	-	mg/kg	5	ND	
Octabromodiphenyl ether	-	mg/kg	5	ND	
Nonabromodiphenyl ether	-	mg/kg	5	ND	
Decabromodiphenyl ether	-	mg/kg	5	ND	

Notes:

(1) The maximum permissible limit is quoted from the directive 2011/65/EU, Annex II.

Halogen

Test Method: With reference to EN 14582: 2007, analysis was performed by Ion Chromatograph (IC).

Test Item(s)	<u>Unit</u>	<u>MDL</u>	<u>002</u>
Fluorine (F)	mg/kg	50	ND
Chlorine (CI)	mg/kg	50	ND
Bromine (Br)	mg/kg	50	ND
Iodine (I)	mg/kg	50	ND

Hexabromocyclododecane (HBCDD)

Test Method: Determination of HBCDD by GC-MS based on IEC 62321:2008.

Test Item(s)	<u>Unit</u>	<u>MDL</u>	<u>002</u>
Hexabromocyclododecane (HBCDD)	mg/kg	10	ND

Notes:

(1) Reference Information: Directive 2011/65/EU recasting RoHS directive 2002/95/EC: Hexabromocyclododecane (HBCDD) is considered as a priority for risk evaluation and substance restriction.

Phthalate

Test Method: Determination of phthalates by GC-MS based on EN 14372:2004.



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Test Report	No. CANEC15050196	No. CANEC1505019605		3 Apr 2015	Page 4 of 9
<u>Test Item(s)</u> Dibutyl Phthalate (DBP)	<u>CAS NO.</u> 84-74-2	<u>Unit</u> %(w/w)	MDL 0.003	<u>002</u> ND	
Benzylbutyl Phthalate (BBP)	85-68-7	%(w/w)	0.003	ND	
Bis(2-ethylhexyl) Phthalate (DEHP)	117-81-7	%(w/w)	0.003	ND	

Notes:

(1) Reference Information: Directive 2011/65/EU recasting RoHS directive 2002/95/EC: Bis (2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP) and Dibutyl phthalate (DBP) are considered as a priority for risk evaluation and substance restriction.



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No. CANEC1505019605

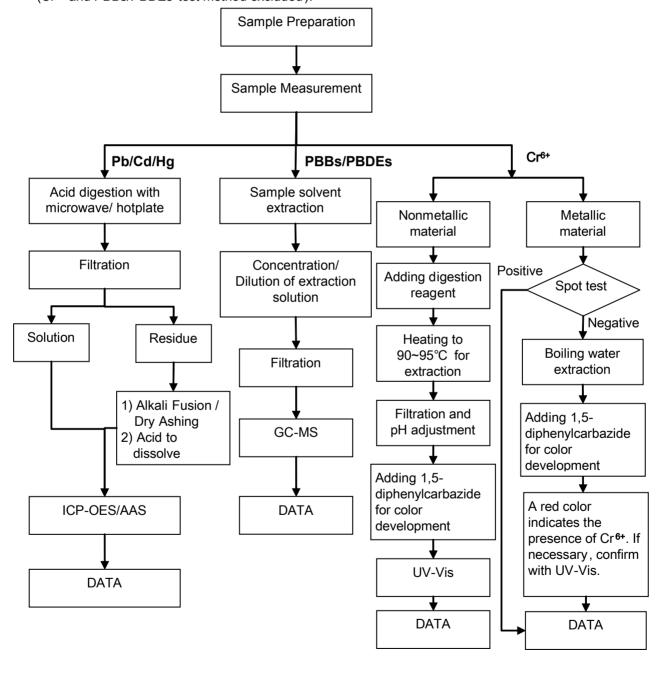
Page 5 of 9

Date: 13 Apr 2015

ATTACHMENTS

RoHS Testing Flow Chart

- 1) Name of the person who made testing: Bruce Xiao / Sunny Hu
- 2) Name of the person in charge of testing: Bella Wang / Cutey Yu
- 3) These samples were dissolved totally by pre -conditioning method according to below flow chart (Cr⁶⁺ and PBBs/PBDEs test method excluded).





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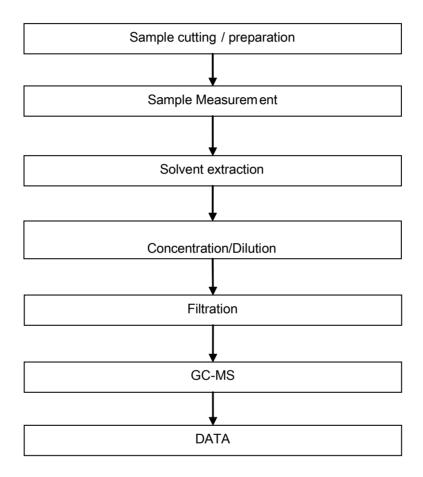
Page 6 of 9

Date: 13 Apr 2015

ATTACHMENTS

Phthalates Testing Flow Chart

- 1) Name of the person who made testing: Sunny Hu
- 2) Name of the person in charge of testing: Cutey Yu





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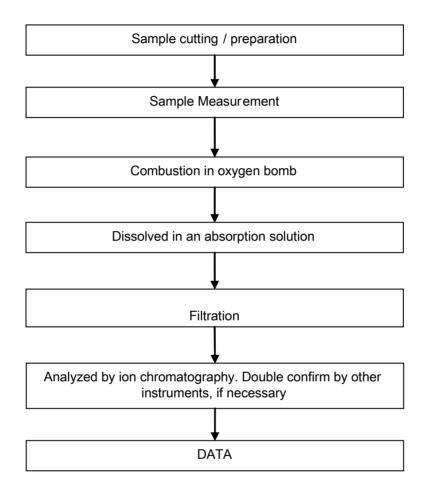
Test Report No. CANEC1505019605 Date: 13 Apr 2015 Page 7 of 9

ATTACHMENTS

Halogen Testing Flow Chart

1) Name of the person who made testing: Hanming Xiao

2) Name of the person in charge of testing: Bella Wang





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No. CANEC1505019605

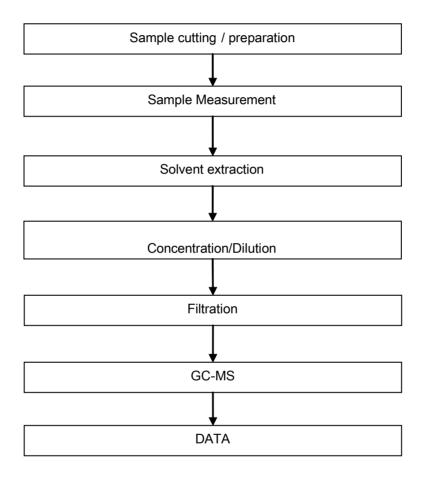
Page 8 of 9

Date: 13 Apr 2015

ATTACHMENTS

HBCDD Testing Flow Chart

- 1) Name of the person who made testing: Sunny Hu
- 2) Name of the person in charge of testing: Cutey Yu





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No. CANEC1505019605

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Date: 13 Apr 2015

Sample photo:



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Test Report No. CANEC1500269601 Date: 13 Jan 2015 Page 1 of 10

SHENZHEN WOER HEAT-SHRINKABLE MATERIAL CO.,LTD.

WOER MANSION,LANJING NORTH ROAD,PINGSHAN INDUSTRIAL ZONE,LONGGANG DISTRICT,SHENZHEN
CHINA

The following sample(s) was/were submitted and identified on behalf of the clients as: Please see remark

SGS Job No.: CP15-000748 - SZ

Date of Sample Received: 07 Jan 2015

Testing Period: 07 Jan 2015 - 13 Jan 2015

Test Requested: Selected test(s) as requested by client.

Test Method : Please refer to next page(s).

Test Results: Please refer to next page(s).

Conclusion: Based on the performed tests on submitted sample(s), the results of Lead,

Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBBs), Polybrominated diphenyl ethers (PBDEs) comply with the limits as set by RoHS

Directive 2011/65/EU Annex II; recasting 2002/95/EC.

Signed for and on behalf of SGS-CSTC Ltd.

Merry Lv

Approved Signatory



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Test Report No. CANEC1500269601 Date: 13 Jan 2015 Page 2 of 10

Test Results:

Test Part Description:

Specimen No. SGS Sample ID Description

SN1 CAN15-002696.001 Black plastic tube w/ white printing

Remarks:

(1) 1 mg/kg = 1 ppm = 0.0001%

(2) MDL = Method Detection Limit

(3) ND = Not Detected (< MDL)

(4) "-" = Not Regulated

RoHS Directive 2011/65/EU

Test Method: (1)With reference to IEC 62321-5:2013, determination of Cadmium by ICP-OES.

(2) With reference to IEC 62321-5:2013, determination of Lead by ICP-OES.

(3) With reference to IEC 62321-4:2013, determination of Mercury by ICP-OES.

(4) With reference to IEC 62321:2008, determination of Hexavalent Chromium by Colorimetric

Method using UV-Vis.

(5) With reference to IEC 62321:2008, determination of PBBs and PBDEs by GC-MS.

Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>
Cadmium (Cd)	100	mg/kg	2	ND
Lead (Pb)	1,000	mg/kg	2	ND
Mercury (Hg)	1,000	mg/kg	2	ND
Hexavalent Chromium (CrVI)	1,000	mg/kg	2	ND
Sum of PBBs	1,000	mg/kg	-	ND
Monobromobiphenyl	-	mg/kg	5	ND
Dibromobiphenyl	-	mg/kg	5	ND
Tribromobiphenyl	-	mg/kg	5	ND
Tetrabromobiphenyl	-	mg/kg	5	ND
Pentabromobiphenyl	-	mg/kg	5	ND
Hexabromobiphenyl	-	mg/kg	5	ND
Heptabromobiphenyl	-	mg/kg	5	ND
Octabromobiphenyl	-	mg/kg	5	ND
Nonabromobiphenyl	-	mg/kg	5	ND
Decabromobiphenyl	-	mg/kg	5	ND
Sum of PBDEs	1,000	mg/kg	-	ND
Monobromodiphenyl ether	-	mg/kg	5	ND



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Test Report	No. CANEC15002696	Date: 13 Jan 2015		Page 3 of 10	
Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>	
Dibromodiphenyl ether	-	mg/kg	5	ND	
Tribromodiphenyl ether	-	mg/kg	5	ND	
Tetrabromodiphenyl ether	-	mg/kg	5	ND	
Pentabromodiphenyl ether	-	mg/kg	5	ND	
Hexabromodiphenyl ether	-	mg/kg	5	ND	
Heptabromodiphenyl ether	-	mg/kg	5	ND	
Octabromodiphenyl ether	-	mg/kg	5	ND	
Nonabromodiphenyl ether	-	mg/kg	5	ND	
Decabromodiphenyl ether	-	mg/kg	5	ND	

Notes:

(1) The maximum permissible limit is quoted from the directive 2011/65/EU, Annex II.

Halogen

Test Method: With reference to EN 14582: 2007, analysis was performed by Ion Chromatograph (IC).

Test Item(s)	<u>Unit</u>	<u>MDL</u>	<u>001</u>
Fluorine (F)	mg/kg	50	95
Chlorine (CI)	mg/kg	50	ND
Bromine (Br)	mg/kg	50	ND
lodine (I)	mg/kg	50	ND

Hexabromocyclododecane (HBCDD)

Test Method: Determination of HBCDD by GC-MS based on IEC 62321:2008.

Test Item(s)	<u>Unit</u>	<u>MDL</u>	<u>001</u>
Hexabromocyclododecane (HBCDD)	mg/kg	10	ND

Notes:

(1) Reference Information: Directive 2011/65/EU recasting RoHS directive 2002/95/EC: Hexabromocyclododecane (HBCDD) is considered as a priority for risk evaluation and substance restriction.

Phthalate

Test Method: Determination of phthalates by GC-MS based on EN 14372:2004.



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Test Item(s) Dibutyl Phthalate (DBP)	<u>CAS NO.</u> 84-74-2	<u>Unit</u> %(w/w)	MDL 0.003	<u><i>001</i></u> ND	
Benzylbutyl Phthalate (BBP)	85-68-7	%(w/w)	0.003	ND	
Bis(2-ethylhexyl) Phthalate (DEHP)	117-81-7	%(w/w)	0.003	ND	

Notes:

(1) Reference Information: Directive 2011/65/EU recasting RoHS directive 2002/95/EC: Bis (2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP) and Dibutyl phthalate (DBP) are considered as a priority for risk evaluation and substance restriction.



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Test Report No. CANEC1500269601 Date: 13 Jan 2015 Page 5 of 10

Sample Name:

RSFR-H HEAT SHRINKABLE TUBINGS (E203950 🖼 us WOER RSFR-H

TUBE 125°C VW-1 H)



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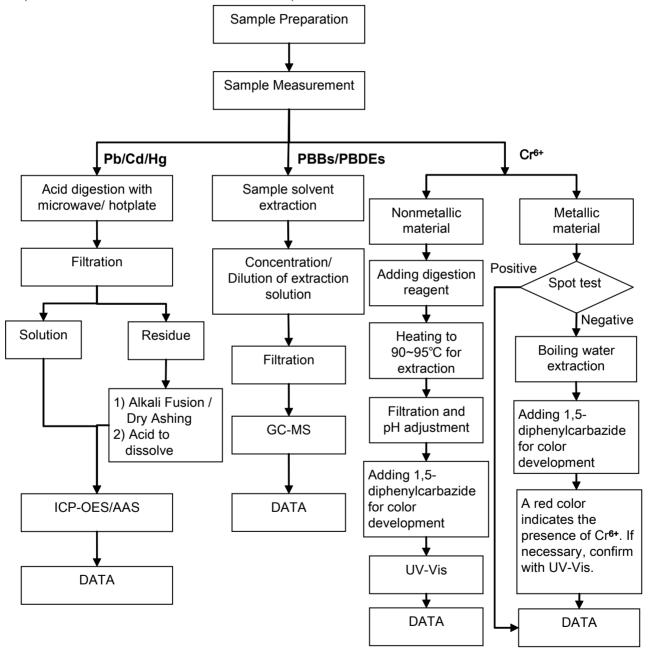
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Date: 13 Jan 2015

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RoHS Testing Flow Chart

- 1) Name of the person who made testing: Bruce Xiao / Sunny Hu
- 2) Name of the person in charge of testing: Bella Wang / Cutey Yu
- 3) These samples were dissolved totally by pre-conditioning method according to below flow chart (Cr⁶⁺ and PBBs/PBDEs test method excluded).





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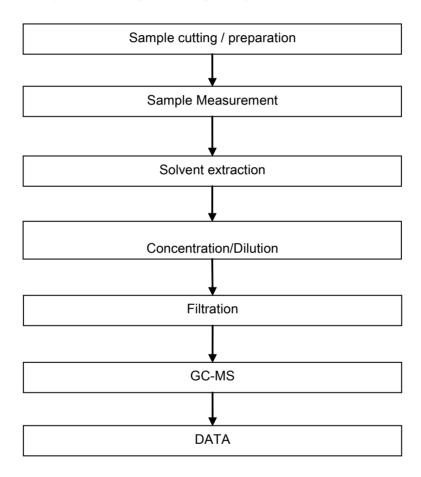
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HBCDD Testing Flow Chart

- 1) Name of the person who made testing: Sunny Hu
- 2) Name of the person in charge of testing: Cutey Yu





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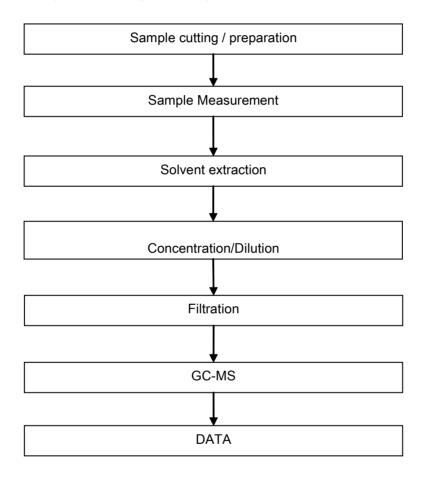
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Date: 13 Jan 2015

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Phthalates Testing Flow Chart

- 1) Name of the person who made testing: Sunny Hu
- 2) Name of the person in charge of testing: Cutey Yu



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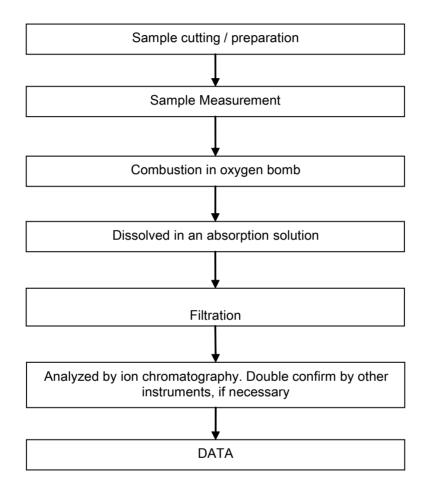
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Halogen Testing Flow Chart

- 1) Name of the person who made testing: Hanming Xiao
- 2) Name of the person in charge of testing: Bella Wang





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Date: 13 Jan 2015

Sample photo:



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编织网管参数明细

产品型号	产品编码	规格(MM)	材质	最小	(単根丝) 最大	温度范围		
JXL-001	321025	SMM	PET	SMM	13MM	-103°F 257°F	-75°C 125°C	
JXL-002	401020	SMM	PET	3MM	1400	-103 "F 257 "F	-75°C 125°C	
JXL-003	401025	499	PET	488	1488	-103°F 257°F	-75°C 125°C	
JXL-004	481025	5WM	PET	SMM	20MM	-103 °F 257 °F	-75°C 125°C	
JXL-005	561020	5MM	PET	5MM	1800	-103 °F 257 °F	-75°C 125°C	
JXL-006	561025	6MM	PET	6MM	23MM	-102°F 257°F	-75°C 125°C	
JXL-007	641025	7MM	PET	788	26 mm	-103°F 257°F	-75°C 125°C	
JXT-008	721025	SMM	PET	SMM	29開開	-103°F257°F	-75°C 125°C	
JXL-009	961025	12MM	PET	12MM	36MM	-183°F 257°F	-75°C 125°C	
JXL-010	1201025	14MM	PET	1400	45頁頁	-103°F 257°F	-75°C 125°C	
JXL-011	243020	4.000	PET	4問問	1200	-102 °F 257 °F	-75°C 125°C	
JXL-012	243025	6 WW	PET	6 MM	12MM	-103 °F 257 °F	-75°C 125°C	
JXL-013	322025	6ИИ	PET	6MM	15MM	-103"F 257"F	-75°C 125°C	
JXL-014	323020	6MM	PET	6NN	16MM	-103°F 257°F	-75°C 125°C	
JXL-015	323025	SMM	PET	8MM	1 9MM	-183 °F 257 °F	-75°C 125°C	
JXL-016	403020	SMM	PET	8MM	21 MM	-103 °F 257 °F	-75°C 125°C	
JXL-017	403025	10 00	PET	1000	23MM	-103 °F 257 °F	-75°C 125°C	
JXL-018	482020	SMM	PET	SMM	20 MM	-103 °F 257 °F	-75°C 125°C	
JXL-019	483020	10MM	PET	1000	25 mm	-103°F 257°F	-75°C 125°C	
JXL-020	483025	1488	PET	14 VV	26期第	-103°F257°F	-75°C 125°C	
JXL-021	563020	12MM	PET	1288	31MM	-103°F 257°F	-75°C 125°C	
JXL-022	563025	16MM	PET	16MM	32MM	-103°F 257°F	-75°C 125°C	
JXL-023	643020	16MM	PET	16MM	33MM	-103°F 257°F	-75°C 125°C	
JXL-024	643025	18##	PET	1800	36 MM	-103°F 257°F	-75°C—125°C	
JXL-025	723020	18MM	PET	1 8MM	38 MM	-103 °F 257 °F	-75°C 125°C	
JXL,-026	723025	25NN	PET	25 NN	42MM	-103°F 257°F	-75°C 125°C	
JXL-027	963020	25MM	PET	25 MM	56MM	-103°F257°F	-75°C 125°C	
JXL-028	963025	3SNN.	PET	35 MM	61MM	-103 °F 257 °F	-75°C 125°C	
JXL-029	964025	40MM	PET	40 MM	65 MM	-103°F257°F	-75°C 125°C	
JXL-030	1203020	SONN	PET	30 11	70 mm	-103°F-257°F	-75°C 125°C	
JXL-031	1203025	35MM	PET	35 NN	82MM	-103 °F-257 °F	-75°C 125°C	
JXL-032	1204025	42mm	PET	42 XX	83MM	-103°F257°F	-75°C 125°C	
JXL-033	1206025	65 NN	PET	65 MM	90MM	-103°F 257°F	-75°C 125°C	
JXL-033 JXL-034 ·王先生	1206025 1054025	65MM 64MM	PET PET	65 MM 64 MM	90MM 84MM	-102°F - 257°F -103°F - 257°F	-75°C 125°C	

联系人:王先生



Test Report No. CANEC1504269101 Date: 01 Apr 2015 Page 1 of 8

SHEN ZHEN HUIYUNHAI TECH. CO.,LTD

3F,A BUILDING,SHUNCHENGJI INDUSTRIAL AREA,DAHE ROAD,QINGHU,LONGHUA,SHENZHEN,CHINA

The following sample(s) was/were submitted and identified on behalf of the clients as: FLAME RESISTANT

PET SLEEVING

SGS Job No.: CP15-014478 - SZ

Model No.: 723025

Date of Sample Received: 26 Mar 2015

Testing Period : 26 Mar 2015 - 01 Apr 2015

Test Requested: Selected test(s) as requested by client.

Test Method : Please refer to next page(s).

Test Results: Please refer to next page(s).

Conclusion: Based on the performed tests on submitted sample(s), the results of Lead,

Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBBs), Polybrominated diphenyl ethers (PBDEs) comply with the limits as set by RoHS

Directive 2011/65/EU Annex II; recasting 2002/95/EC.

Signed for and on behalf of SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch

Almay Gao

Approved Signatory

Money



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Test Report No. CANEC1504269101 Date: 01 Apr 2015 Page 2 of 8

Test Results:

Test Part Description:

Specimen No. SGS Sample ID Description
SN1 CAN15-042691.001 Black material

Remarks:

(1) 1 mg/kg = 1 ppm = 0.0001%

(2) MDL = Method Detection Limit

(3) ND = Not Detected (< MDL)

(4) "-" = Not Regulated

RoHS Directive 2011/65/EU

Test Method: (1)With reference to IEC 62321-5:2013, determination of Cadmium by ICP-OES.

(2)With reference to IEC 62321-5:2013, determination of Lead by ICP-OES. (3)With reference to IEC 62321-4:2013, determination of Mercury by ICP-OES.

(4) With reference to IEC 62321:2008, determination of Hexavalent Chromium by Colorimetric

Method using UV-Vis.

(5) With reference to IEC 62321:2008, determination of PBBs and PBDEs by GC-MS.

Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>
Cadmium (Cd)	100	mg/kg	2	ND
Lead (Pb)	1,000	mg/kg	2	5
Mercury (Hg)	1,000	mg/kg	2	ND
Hexavalent Chromium (CrVI)	1,000	mg/kg	2	ND
Sum of PBBs	1,000	mg/kg	-	ND
Monobromobiphenyl	-	mg/kg	5	ND
Dibromobiphenyl	-	mg/kg	5	ND
Tribromobiphenyl	-	mg/kg	5	ND
Tetrabromobiphenyl	-	mg/kg	5	ND
Pentabromobiphenyl	-	mg/kg	5	ND
Hexabromobiphenyl	-	mg/kg	5	ND
Heptabromobiphenyl	-	mg/kg	5	ND
Octabromobiphenyl	-	mg/kg	5	ND
Nonabromobiphenyl	-	mg/kg	5	ND
Decabromobiphenyl	-	mg/kg	5	ND
Sum of PBDEs	1,000	mg/kg	-	ND
Monobromodiphenyl ether	-	mg/kg	5	ND



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Test Report	No. CANEC15042691	01	Date: 0	1 Apr 2015	Page 3 of 8
Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>	
Dibromodiphenyl ether	-	mg/kg	5	ND	
Tribromodiphenyl ether	-	mg/kg	5	ND	
Tetrabromodiphenyl ether	-	mg/kg	5	ND	
Pentabromodiphenyl ether	-	mg/kg	5	ND	
Hexabromodiphenyl ether	-	mg/kg	5	ND	
Heptabromodiphenyl ether	-	mg/kg	5	ND	
Octabromodiphenyl ether	-	mg/kg	5	ND	
Nonabromodiphenyl ether	-	mg/kg	5	ND	
Decabromodiphenyl ether	-	mg/kg	5	ND	

Notes:

(1) The maximum permissible limit is quoted from the directive 2011/65/EU, Annex II.

<u>Halogen</u>

Test Method: With reference to EN 14582: 2007, analysis was performed by Ion Chromatograph (IC).

Test Item(s)	<u>Unit</u>	<u>MDL</u>	<u>001</u>
Fluorine (F)	mg/kg	50	ND
Chlorine (CI)	mg/kg	50	ND
Bromine (Br)	mg/kg	50	ND
lodine (I)	mg/kg	50	ND

Phthalate

Test Method: Determination of phthalates by GC-MS based on EN 14372:2004.

Test Item(s)	CAS NO.	<u>Unit</u>	<u>MDL</u>	<u>001</u>
Dibutyl Phthalate (DBP)	84-74-2	%(w/w)	0.003	ND
Benzylbutyl Phthalate (BBP)	85-68-7	%(w/w)	0.003	ND
Bis(2-ethylhexyl) Phthalate (DEHP)	117-81-7	%(w/w)	0.003	ND



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Test Item(s) CAS NO. Unit MDL 001

Diisobutyl Phthalate (DIBP) 84-69-5 %(w/w) 0.003 ND

Notes:

Reference Information: Directive 2011/65/EU recasting RoHS directive 2002/95/EC and the latest amending directive:

- (1) Bis (2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), and Dibutyl phthalate (DBP) are considered as a priority for risk evaluation and substance restriction.
- (2) Bis (2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP) and Diisobutyl Phthalates (DIBP) have been adopted in the draft of Commission Delegated Directive amending Annex II to Directive 2011/65/EU of the European Parliament, and the regulatory limit of each restricted substances should be 0.1%.



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Test Report

No. CANEC1504269101

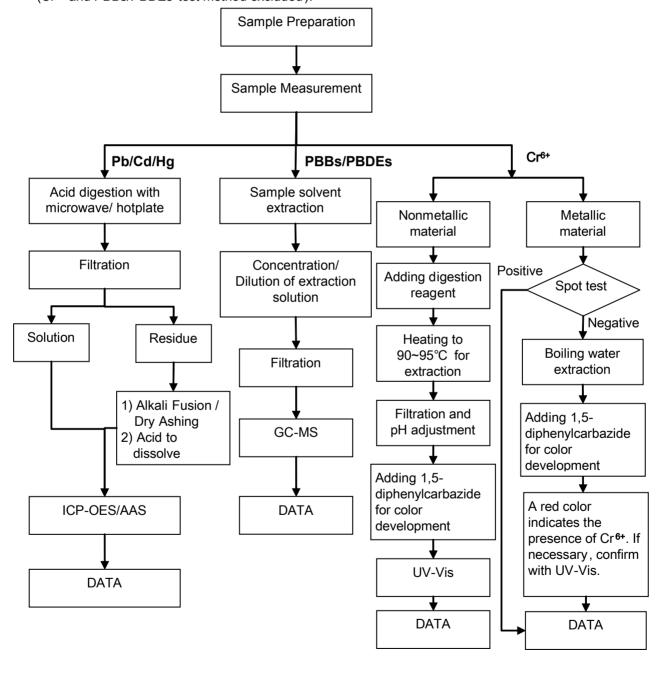
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Date: 01 Apr 2015

ATTACHMENTS

RoHS Testing Flow Chart

- 1) Name of the person who made testing: Bruce Xiao / Sunny Hu
- 2) Name of the person in charge of testing: Bella Wang / Cutey Yu
- 3) These samples were dissolved totally by pre -conditioning method according to below flow chart (Cr⁶⁺ and PBBs/PBDEs test method excluded).





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Attention:To check the authenticity of testing inspection report & certificate, please contact us at telephone; (86-755) 8307 1443.

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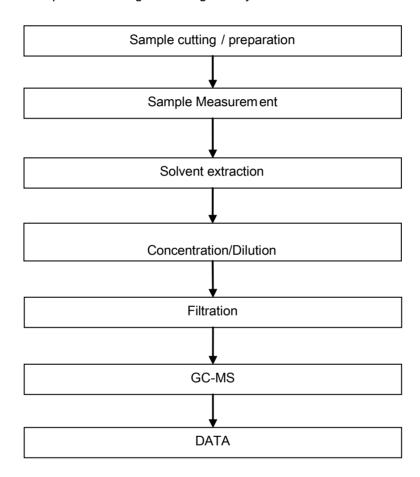
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Date: 01 Apr 2015

ATTACHMENTS

Phthalates Testing Flow Chart

- 1) Name of the person who made testing: Sunny Hu
- 2) Name of the person in charge of testing: Cutey Yu





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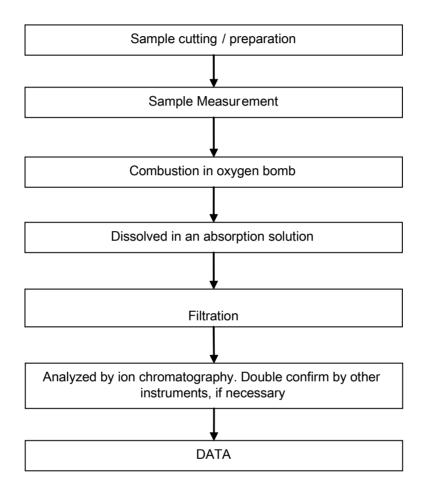
Test Report No. CANEC1504269101 Date: 01 Apr 2015 Page 7 of 8

ATTACHMENTS

Halogen Testing Flow Chart

1) Name of the person who made testing: Hanming Xiao

2) Name of the person in charge of testing: Bella Wang





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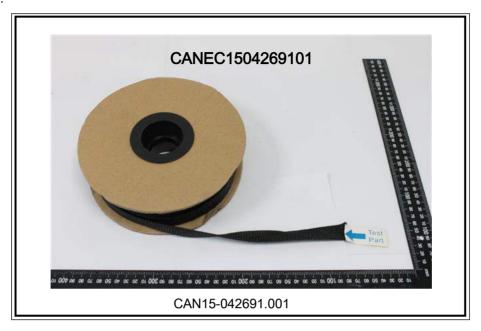
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Date: 01 Apr 2015

Sample photo:



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*** End of Report ***



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Report No.: HX201401674-2

Applicant: DONG GUAN XIAN KANG ELECTRONIC PRODUCE CO.,LTD

Address: THE SECOND INDUSTRIAL PARK. YAN WU DA LING SHAN TOWN. DONG

GUAN CITY

Report on the submitted sample(s) said to be:

Name: Acetate tape

Type/Model: -----Buyer: -----Supplier: ------

Date of Receipt: Mar.10, 2014 Test period: Mar.10, 2014 – Mar.13, 2014

Test Request: In accordance with RoHS Directive 2011/65/EU and its amendment directives.

Test Result: Please refer to following page(s).

Conclusion: Based on the performed test on submitted sample, the result(s) comply with the

RoHS Directive 2011/65/EU and its amendment directives.

Tested by Reviewed by Kerinken Approved by Hailas Wang

Seal of:
GUANGZHOU GRG METROLOGY & TEST CO., LTD
Issue date: Mar. 13, 2014

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TEST REPORT



Report No.: HX201401674-2

Sample description:

1. Black adhesive cloth

Test method:

Test Item(s)	Test method	Measuring instrument	MDL
Lead (Pb)	IEC 62321:2008,section 10	ICP-OES/AAS	2mg/kg
Cadmium (Cd)	IEC 62321:2008,section 10	ICP-OES/AAS	2mg/kg
Mercury (Hg)	IEC 62321:2008,section 7	ICP-OES	2mg/kg
Hexavalent Chromium [Cr(VI)]	IEC 62321:2008,Annex C	UV-VIS	5mg/kg
PBBs & PBDEs	IEC 62321:2008,Annex A	GC-MS	10mg/kg

Test result(s):

1001100011(0)1	1			
Test Item	Result	Unit	RoHS Limit	
rest item	1	Onit		
Lead (Pb)	N.D.	mg/kg	1000	
Cadmium (Cd)	N.D.	mg/kg	100	
Mercury (Hg)	N.D.	mg/kg	1000	
Hexavalent Chromium [Cr(VI)]	N.D.	mg/kg	1000	

Test Item	Result	- Unit	RoHS Limit	
iest item	1		HOIIS LIIIII	
Sum of PBBs	N.D.	mg/kg	1000	
Monobromobiphenyl	N.D.	mg/kg		
Dibromobiphenyl	N.D.	mg/kg		
Tribromobiphenyl	N.D.	mg/kg		
Tetrabromobiphenyl	N.D.	mg/kg		
Pentabromobiphenyl	N.D.	mg/kg		
Hexabromobiphenyl	N.D.	mg/kg		

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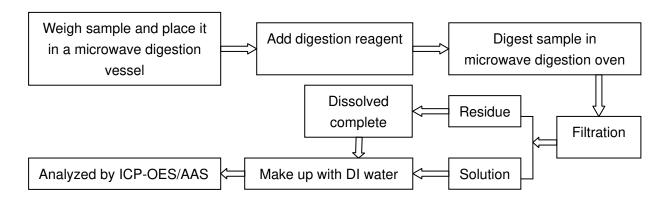
Heptabromobiphenyl	N.D.	mg/kg	
Octabromobiphenyl	N.D.	mg/kg	
Nonabromobiphenyl	N.D.	mg/kg	
Decabromobiphenyl	N.D.	mg/kg	
Sum of PBDEs	N.D.	mg/kg	1000
Mono-bromodiphenyl ether	N.D.	mg/kg	
Dibromodiphenyl ether	N.D.	mg/kg	
Tribromodiphenyl ether	N.D.	mg/kg	
Tetrabromodiphenyl ether	N.D.	mg/kg	
Pentabromodiphenyl ether	N.D.	mg/kg	
Hexabromodiphenyl ether	N.D.	mg/kg	
Heptabromodiphenyl ether	N.D.	mg/kg	
Octabromodiphenyl ether	N.D.	mg/kg	
Nonabromodiphenyl ether	N.D.	mg/kg	
Decabromodiphenyl ether	N.D.	mg/kg	

Remark: 1) mg/kg = ppm

2) MDL = Method Detection Limit

3) "N.D." = Not Detected (Below method detection limit)

Test Process for Pb / Cd



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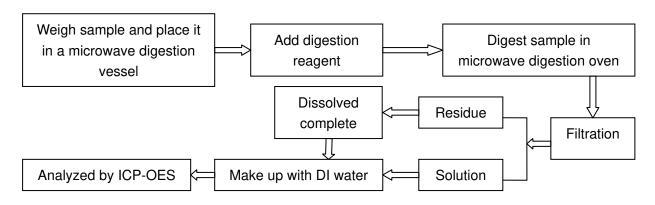


TEST REPORT

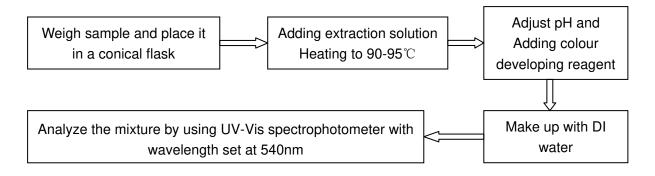


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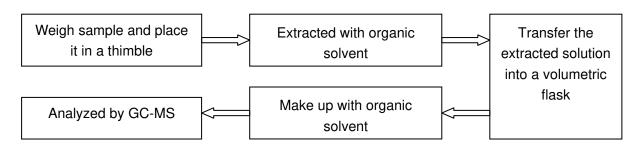
Test Process for Hg



Test Process for Cr (VI)



Test Process for PBBs & PBDEs



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TEST REPORT



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Photo of Sample



-----End of Report-----