# JZC822A-A

Fan

Rate Voltage

Rate Current

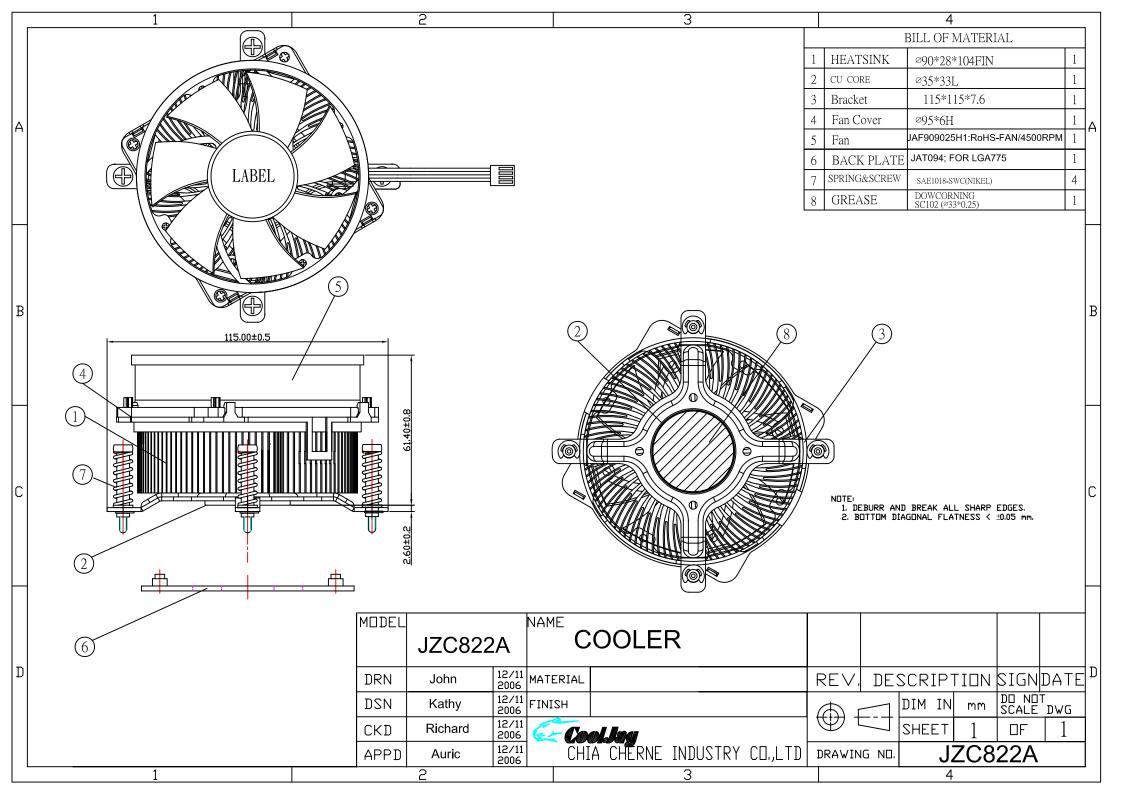
Rate Speed



12V

0.55A

4500 RPM  $\pm$  10%



TYPE	MODEL NO.	PAGE:
DC BRUSHLESS FAN	F129025BU AF	1 OF 5

THESE SPECIFICATIONS DEFINE ELECTRICAL AND MECHANICAL CHARACTERISTICS OF THE DC BRUSHLESS FAN.

1. MECHANICAL SPECIFICATIONS

1-1 EXTERNAL DIMENSIONS : REFER TO DWG. NO. HT-001

1-2 HOUSING MATERIAL : LEAD-FREE PBT PLASTIC {UL 94V-0} IMPELLER MATERIAL : LEAD-FREE PBT PLASTIC {UL 94V-0}

1-3 BEARING : TWO BALL BEARING

1-4 NET WEIGHT : 84g

#### 2.ELECTRICAL SPECIFICATIONS

	LLLOTTIIOAL SI LO	II IOATIONO	
NO	ITEMS	STANDARD	REMARKS
2-1	RATED VOLTAGE	12 V DC	
2-2	<b>OPERATING RANGE</b>	11.4 V~12.6 V DC	
2-3	CONSUMING CURRENT	DUTY CYCLE =100% 0.38 Amp (MAX. 0.55 Amp) DUTY CYCLE = 0%~20% (MAX. 0.08Amp)	IN FREE AIR AT RATED VOLTAGE
2-4	CONSUMING POWER	DUTY CYCLE =100% 4.56W (MAX.6.60 W) DUTY CYCLE = 0%~20% (MAX.0.96 W)	IN FREE AIR AT RATED VOLTAGE
2-5	RATED SPEED	DUTY CYCLE = 100% 4500±10%rpm DUTY CYCLE= 0%~20%1000rpm±400rpm	IN FREE AIR AT RATED VOLTAGE
2-6	AIRFLOW	DUTY CYCLE =100% 76.92CFM 2.18m³/min DUTY CYCLE = 0%~20% 16.57CFM 0.47m³/min	AT RATED VOLTAGE AT ZERO STATIC PRESSURE
2-7	STATIC PRESSURE	DUTY CYCLE =100% 8.30 mmH <sub>2</sub> O DUTY CYCLE =0%~20% 0.40 mmH <sub>2</sub> O	AT RATED VOLTAGE AT ZERO AIRFLOW
2-8	SOUND LEVEL	DUTY CYCLE =100% 45dB(A) ( MAX. 49dB(A) ) DUTY CYCLE = 0%~20% 19 dB(A) ( MAX.21 dB(A) )	IN FREE AIR AT RATED VOLTAGE  1m  MICROPHONE FAN

	ALLKOVAL	CHECK	DESIGN
EVERFLOW	LIU CHUN	LIANG HAI	HAI YING
PRECISION ELECTRON CO., LTD	XIANG 2006/07/11	HU 2006/07/11	YANG 2006/07/11

TYPE M		MODEL NO.		PAGE:
DC BRUSHLESS FAN		F129025B	UAF	2 OF5
2-10	OPERATING TEMPERATURE	-10°C~70°C (NORMAL HUMIDITY)		
0.44		,		
2-11	STORAGE TEMPERATURE	-20°C∼75°C (NORMAL HUMIDITY)		
2-12	DIRECTION OF ROTATION	CLOCKWISE FROM LABEL SIDE		
2-13	DIRECTION OF AIRFLOW	LABEL SIDE DISCHARGE		
2-14	INSULATION STRENGTH	10 MEG OHM MIN.	AT 500 VDC (BETWEEN FRA	ME AND (+) TERMINAL)
2-15	DIELECTRIC STRENGTH	MUST WITHSTAND 500 VAC 1min	MAX 1mA BETW LEADS	EEN FRAME AND
2-16	PROTECTION	CURRENT LIMIT		
2-17	DROP TEST	IN MINIMUM PACKAGING ONE DROP OF THREE F ON TO 10mm THICKNES	FACES FROM 30cr	m DISTANCE HEIGHT
2-18	MECHANICAL SHOC	K TEMPERATURE ORIENTATION POWER ACCELERATION PULSE NUMBER OF SHOCKS	: +25°c. : X , Y , Z . : NON-OPERAT : 20G MIN. : 11 MS HALF-S : 5 SHOCKS FO	

NOTE 1. THE ABOVE STANDARD SHOULD BE THE SPECIFIED VALUE AT NORMAL TEMPERATURE (25°C) AND NORMAL HUMIDITY (60~65%) UNLESS OTHERWISE NOTICED.

	APPROVAL	CHECK	DESIGN
EVERFLOW PRECISION ELECTRON CO., LTD	LIU CHUN XIANG 2006/07/11	LIANG HAI HU 2006/07/11	HAI YING YANG 2006/07/11

TYPE MODEL NO. PAGE:
DC BRUSHLESS FAN F129025BU AF 30F5

#### 3.LIFE EXPECTANCE (MTBF)

MORE THAN 90% SHALL KEEP RUNNING AFTER CONTINUOUS OPERATION OF 50,000 HOURS AT RATED VOLTAGE IN 25°C AMBIENT TEMPERATURE AND 65% RELATIVE HUMIDITY CONDITION.

FAN LIFE SHOULD BE REDEFINED WHEN ABOVE CONDITIONS ARE CHANGED.

#### **4.LOCKED ROTOR**

NO DAMAGE SHALL BE FOUND FOR CONTINUOUS ONE HOUR AT LOCKED ROTOR.

#### 5.SPECIAL ITEMS

5-1 SPECIFICATION CHANGE

ANY CHANGES TO THE PARAMETERS SPECIFIED IN THIS DOCUMENT WILL BE DETERMINED BY MUTUAL AGREEMENT ON BOTH PARTIES.

#### 5-2 UNCERTAINTY

IN THE EVENT THAT ANY QUESTIONS MAY ARISE ABOUT THIS DOCUMENT OR ANY STATEMENTS NOT SPECIFIED IN THIS DOCUMENT BOTH PARTIES WILL DISCUSS AND DETERMINE A SOLUTION FAITHFULLY.

#### **5-3 NOTE**

- 1.PLEASE CONSIDER HAVING AN INDEPENDENT PROTECTION SYSTEM IN THE EVENT THAT THE FAN SHOULD STOP OPERATING.
- 2.PLEASE MAKE REFERENCE TO ATTACHED IMPORTANT NOTES & GENERAL INSTRUCTIONS AND DWG.No.:HT-001 TOGETHER WITH THIS SPECIFICATION.
- 6. FAN SPEED RESPONSE TO PWM CONTROL INPUT SIGNAL.
  IF NO CONTROL SIGNAL IS PRESENT THE FAN SHALL OPERATE AT MAXIMUM RPM.

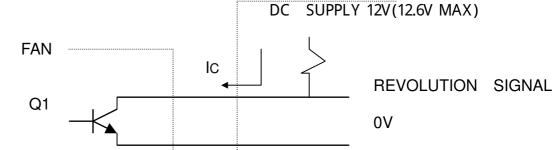
	APPROVAL	CHECK	DESIGN
EVERFLOW PRECISION ELECTRON CO., LTD	LIU CHUN	LIANG HAI	HAI YING
	XIANG	HU	YANG
	2006/07/11	2006/07/11	2006/07/11

TYPE MODEL NO. PAGE:
DC BRUSHLESS FAN F129025BU AF 40F5

- 7. PROVISION OF REVOLUTION SIGNAL
  - 7-1 OUTPUT OF REVOLUTION SIGNAL

.OUTPUT TYPE
.ELECTRICAL SPECIFICATION

OPEN COLLECTOR TYPE



TRANSISTOR Q1 AT "ON" POSITION COLLECTOR CURRENT SATURATION VOLTAGE

BETWEEN COLLECTOR AND EMITTER

AT IC = 10mA MAX.

TRANSISTOR Q1 AT "OFF" POSITION

RELEASE VOLTAGE

Ic = 10 mA MAX.VoL = 0.5V MAX.

VOH = 12V(12.6V MAX)

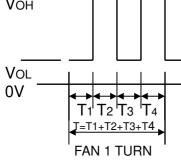
7-2 OUTPUT WAVEFORM

(ACCORDING TO INPUT VOT.)

(AT REVOLUTION)

(AT LOCKED POSITION)

Vон



\_\_\_\_\_ Vol.

REMARK: AT LOCKED POSITION, OUTPUT BECOMES VOH OR VOL

 $T=T_1+T_2+T_3+T_4=60/N$  (SEC) N: FAN SPEED (r.p.m)

DUTY= 
$$\frac{T1}{T_1+T_2} = 50\pm10\%$$

	APPROVAL	CHECK	DESIGN
EVERFLOW		I IANG HAI	HAI YING YANG
PRECISION ELECTRON CO., LTD	LIU CHUN XIANG	HU	
	2006/07/11	2006/07/11	2006/07/11

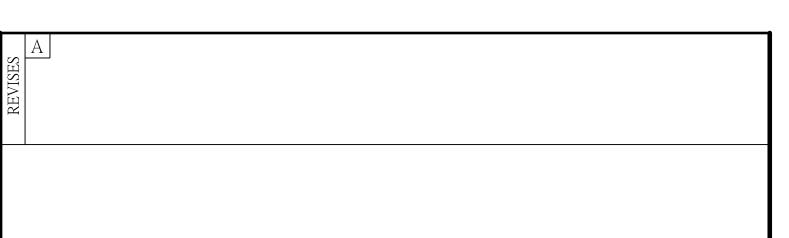
TYPE DC BRUSHLESS FAN F129O25BU AF 50F5  7-3 PWM CONTROL INPUT SIGNAL: MAXIMUM VOLTAGE FOR LOGIC LOW:MAX VIL ≤0.8VDC MINIMUM VOLTAGE FOR LOGIC HIGH:MIN VIH ≥2.0VDC VIL MAX ≤ 0.8VDC	SPECIFICATIONS						
7-3 PWM CONTROL INPUT SIGNAL:  MAXIMUM VOLTAGE FOR LOGIC LOW:MAX VIL ≤ 0.8VDC  MINIMUM VOLTAGE FOR LOGIC HIGH:MIN VIH ≥ 2.0VDC							
MAXIMUM VOLTAGE FOR LOGIC LOW:MAX VIL ≤ 0.8VDC MINIMUM VOLTAGE FOR LOGIC HIGH:MIN VIH ≥ 2.0VDC							
VIL MAX ≦ 0.8VDC							

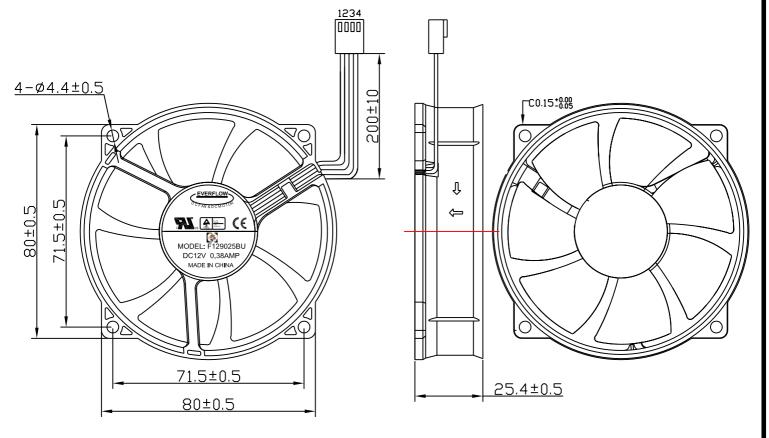
	APPROVAL	CHECK	DESIGN
EVERFLOW PRECISION ELECTRON CO., LTD	LIU CHUN	LIANG HAI	HAI YING
	XIANG	HU	YANG
	2006/07/11	2006/07/11	2006/07/11

#### IMPORTANT NOTES & GENERAL INSTRUCTIONS

- 1. Customer shall confirm the matching and reliability of fan on actual set or unit application.
  - This include confirmation on set or unit life, electrical noise, mechanical noise, vibration, static electricity, electric power noise, drift, electric resonance between motor and control circuit, mechanical resonance between motor and chassis, irregular movement of set due to motor noise, irregular movement of set in strong electromagnetic field, damaged by lightning surge earthing method etc.
- 2. Any revisions on the specification shall be done based on mutual discussion and agreement.
- 3. In order to improve the performance within the scope of specification, parts or material changes are subject to prior notice to customer.
- 4. Any item which is needed to add into specification shall be determined on customer's prior written request. If no information given, fan will be delivered based on our standard judgment.
- 5. When any trouble occurs, both parties shall discuss on this specification to solve the matters. In this case, our guarantee is only limited to fans.

	APPROVAL	CHECK	DESIGN	
EVERFLOW PRECISION ELECTRON CO., LTD	LIU CHUN XIANG 2006/07/11	LIANG HAI HU 2006/07/11	HAI YING YANG 2006/07/11	





#### NOTES:

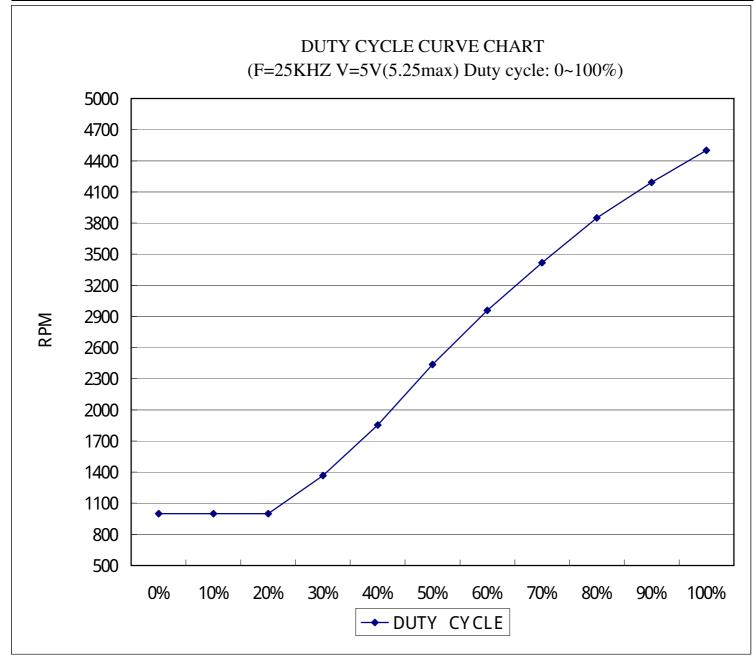
1. LEAD WIRE UL 1430 #26AWG OR EQUIVALENT

PIN 1: BLACK WIRE---(-)
PIN 2: YELLOW WIRE---(+)
PIN 3: GREEN WIRE---(SIGNAL)
PIN 4: BLUE WIRE---(PWM INPUT)
2. HOUSING: A2543-4P OR EQUIVALENT

TRCANG	UNIT: mm		MODEL	F129025BUAF6A	\ <b>5</b> bD	
			NO.	F129023DUAF0F	AJUK	
APPROVE	LIU CHUN XIANG	2006/07/11		PART	DC FAN	
CHECK LIANG HAI HU 2006/07/11			NAME	DC FAN		
DRAWING	HAI YING YANG	2006/07/11	X	DRAWING NAME	OUTLINE	
EVERFLOW PRECISION ELECTRON CO. ,LTD.			CODE		T - 0 0 1	PAGE: 1

# F129025BUAF6A5bR

DUTY CYCLE	SPEED (RPM)	RANGE	CURRENT (REF)
0%	1000	±400	0.08A
10%	1000	±400	0.08A
20%	1000	±400	0.08A
30%	1366	±400 (REF)	0.08A
40%	1854	±400 (REF)	0.08A
50%	2436	±400 (REF)	0.12A
60%	2958	±400 (REF)	0.17A
70%	3419	±10%(REF)	0.24A
80%	3849	±10%(REF)	0.33A
90%	4191	±10%(REF)	0.43A
100%	4500	±10%	<0.55A





WHOLE WELL CO., LTD. Report No. : CE/2006/61679

NO. 48, LANE 203 SEC 2, HSING-LONG ROAD, TAIPEI, Date : 2006/06/19

TAIWAN. Page : 1 of 2

#### The following merchandise was (were) submitted and identified by the client as:

Type of Product : ON SEMICONDUCTOR SOT-23 PACKAGE

Style/Item NoSample ReceivedSOT-232006/6/6

<u>Testing Date</u> : 2006/6/6 TO 2006/06/19

\_\_\_\_\_

#### **Test Result**

PART NAME NO.1 : MIXED ALL PARTS

Took Itom (a):	Unit	Method	MDL	Result
Test Item (s):	Unit	Method	MIDL	No.1
Chromium VI (Cr+6)	ppm	UV-VIS(US EPA 7196A) after reference to US EPA 3060A.	2	N.D.
Cadmium (Cd)	ppm	ICP-AES after reference to EN 1122, method B:2001 or other acid digestion.	2	N.D.
Mercury (Hg)	ppm	ICP-AES after reference to US EPA 3052 or other acid digestion.	2	N.D.
Lead (Pb)	ppm	ICP-AES after reference to US EPA 3050B or other acid digestion.	2	N.D.

NOTE: (1) N.D. = Not detected (<MDL)

(2) ppm = mg/kg

(3) MDL = Method Detection Limit

Daniel Yeh, M.R. / Operation Manager Signed for and on behalf of

SGS TAIWAN LTD.



WHOLE WELL CO., LTD.

NO. 48, LANE 203 SEC 2, HSING-LONG ROAD, TAIPEI,

TAIWAN.

Report No. : CE/2006/61679

: 2006/06/19 Date

: 2 of 2 Page





SANYO SEMICONDUCTOR TAIPEI CO., LTD. Report No. : CE/2006/80268

116 6F., NO. 101, SONGREN RD., SINYI DISTRICT, TAIPEI Date : 2006/08/08

CITY 110, TAIWAN Page : 1 of 4

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

Sample Description : HSSOP PACKAGE SERIES

Sample Received : 2006/08/01

Testing Period : 2006/08/01 TO 2006/08/08

\_\_\_\_\_\_

**Test Result(s)** : - Please see the next page(s) -

Daniel Yen, M.R. Poperation Manag Signed for and on behalf of SGS TAIWAN LTD.

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SANYO SEMICONDUCTOR TAIPEI CO., LTD. Report No. : CE/2006/80268

116 6F., NO. 101, SONGREN RD., SINYI DISTRICT, TAIPEI Date : 2006/08/08

CITY 110, TAIWAN Page : 2 of 4

#### Test Result(s)

PART NAME NO.1 : MIXED ALL PARTS OF BODY PART NAME NO.2 : SILVER COLORED METAL PIN

Test Item (s):	Unit	Method	MDL	Res	sult
rest item (s):	Unit	Method	MDL	No.1	No.2
PBBs (Polybrominated					
biphenyls)					
Monobromobiphenyl			5	N.D.	N.D.
Dibromobiphenyl			5	N.D.	N.D.
Tribromobiphenyl			5	N.D.	N.D.
Tetrabromobiphenyl		777'/1 C	5	N.D.	N.D.
Pentabromobiphenyl		With reference to	5	N.D.	N.D.
Hexabromobiphenyl	/ 17	USEPA3540C, Analysis was	5	N.D.	N.D.
Heptabromobiphenyl	mg/Kg	performed by GC/MS and screening via USEPA	5	N.D.	N.D.
Octabromobiphenyl	(ppm)	3550C with	5	N.D.	N.D.
Nonabromobiphenyl		HPLC/DAD/MS	5	N.D.	N.D.
Decabromobiphenyl			5	N.D.	N.D.
Total PBBs			-	N.D.	N.D.
(Polybrominated					
biphenyls)/Sum of above					
PBBEs(PBDEs)					
(Polybrominated biphenyl					
ethers)					
Monobromobiphenyl ether			5	N.D.	N.D.
Dibromobiphenyl ether			5	N.D.	N.D.
Tribromobiphenyl ether			5	N.D.	N.D.
Tetrabromobiphenyl ether			5	N.D.	N.D.
Pentabromobiphenyl ether			5	N.D.	N.D.
Hexabromobiphenyl ether		With reference to	5	N.D.	N.D.
Heptabromobiphenyl ether		USEPA3540C, Analysis was	5	N.D.	N.D.
Octabromobiphenyl ether	mg/Kg	performed by GC/MS and	5	N.D.	N.D.
Nonabromobiphenyl ether	(ppm)	screening via USEPA	5	N.D.	N.D.
Decabromobiphenyl ether		3550C with	5	N.D.	N.D.
Total PBBEs(PBDEs)		HPLC/DAD/MS	-	N.D.	N.D.
(Polybrominated biphenyl					
ethers)/Sum of above					
Total of Mono to Nona-			-	N.D.	N.D.
brominated biphenyl					
ether. (Note 4)					

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SANYO SEMICONDUCTOR TAIPEI CO., LTD. Report No. : CE/2006/80268

116 6F., NO. 101, SONGREN RD., SINYI DISTRICT, TAIPEI Date : 2006/08/08

CITY 110, TAIWAN Page : 3 of 4

Took Itom (a)	TT 3-4	B/CoAlbord	MDI	Res	sult
Test Item (s): Unit		Method	MDL	No.1	No.2
Chromium VI (Cr+6)	mg/Kg (ppm)	With referece to US EPA 3060A. Analysis was performed by UV- VIS (US EPA 7196A)	2	N.D.	N.D.
Cadmium (Cd)	mg/Kg (ppm)	With reference to EN 1122 method B:2001. Analysis was performed by ICP-AES.	2	N.D.	N.D.
Mercury (Hg)	mg/Kg (ppm)	With reference to US EPA 3052. Analysis was performed by ICP-AES.	2	N.D.	N.D.
Lead (Pb)	mg/Kg (ppm)	With reference to US EPA 3050B. Analysis was performed by ICP-AES.	2	N.D.	9.9

NOTE: (1) N.D. = Not Detected (<MDL)

- (2) mg/Kg = ppm, 0.1% = 1000 ppm(mg/Kg), 0.0005% = 5 ppm(mg/Kg)
- (3) MDL = Method Detection Limit
- (4) Decabromobiphenyl ether (DecaBDE) in polymeric applications is exempted by Commission Decision of 13 Oct 2005 amending Directive 2002/95/EC notified under document 2005/717/EC.
- (5) PBBEs=PBDEs=Polybrominated Diphenyl Ethers=PBDOs=PBBOs.
- (6) " " = Not Regulated
- (7) " --- " = Not Applicable
- (8) Sample was totally digested for Pb, Cd, Hg and totally extracted for Cr<sup>+6</sup> and PBBs/PBDEs.



SANYO SEMICONDUCTOR TAIPEI CO., LTD. Report No. : CE/2006/80268

116 6F., NO. 101, SONGREN RD., SINYI DISTRICT, TAIPEI Date : 2006/08/08

CITY 110, TAIWAN Page : 4 of 4





\*\* End of Report \*\*

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TSUEN JYI ENTERPRISE CO., LTD.

2F., NO. 501-17, JHONGJHENG RD., SINDIAN CITY,

TAIPEI COUNTY 231, TAIWAN

Report No. : CE, 2006/30186

Date

: 2005/03/08

Page

# The following merchandise was (were) submitted and identified by the client as :

Type of Product

METAL RING (RTW/STW/IRTW/ISTW/MT/NT/GTW)

Style/Item No.

OSK5, SK7

Buver/Order No

TSUEN JYI ENTI: RPRISE CO.,LTD.

Sample Received

2006/03/01

Testing Date

2006/03/01 TO 2006/03/08

Conclusion

The test results of Pb, Cd, Hg and Cr+6 for the

submitted sample comply with the requirements of

RoHS (2002/95/EC).

PART NAME NO. 1

BLACK METAL

PASS

	-	the state of the s	2477	Result	Limit of
Test Item (s):	Unit	Method	MDL	No.1	ROHS
Chromium VI (Cr+6)	ppm	UV-VIS after reference to US EPA 3060A.	2	N.D.	1000
Cadmium (Cd)	ppm	ICP-AES after reference to EN 1122, method i3:2001, or other acid digestion.	2	N.D.	100
Mercury (Hg)	ppm	ICP-AES after reference to US EPA 3052 or other acid digestion.	2	N.D.	1000
Lead (Pb)	ppm	ICP-AES after reference to US EPA 3050B or other acid digestion.	2	N.D.	1000

NOTE: (1) N.D. = Not detected (<MDL)

(2) ppm = mg/kg

(3) MDL = Method Detection Limit

reh, M.R. Poperation Manager

Signed for and on behalf of SGS TAIWAN LTD.

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SOS TAWARDINITED

NO. 138-1, Wu Kung Road, Wuku Indudrial Zone, Tabel County, "lewelt 1886-70 22903939 (1885-3) 2289-3237 www.eps.combe



TSUEN JYI ENTERPRISE CO., LTD. 2F., NO. 501-17, JHONGJHENG RD., SINDIAN CITY, TAIPEI COUNTY 231, TAIWAN Report No. : CE/2006/30186

Date : 2006/03/08

Page :2 of?



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SOB TANWAN CHATTED

NO. 135-1, Welkung Road, Welks streethal Zone, Taipel count, Taiwan. 1 (1986-2) 2799-3939 (366-2) 2799-3237 | www.sgs.com.tv



No.: GZ0603023198/CHEM

Date: MAR 08, 2006

Page 1 of 2

HUNG YICK METAL COMPANY LIMITED

UNITS 101-108, 1/F, EAST OCEAN CENTRE, 98 GRANVILLE ROAD, TSIMSHATSUI, KOWLOON, HONG KONG

Report on the submitted sample said to be ELECTROLYTIC GALVANIZED STEEL SHEET IN COIL, EGC: S D QF X

SGS Ref No.

: GZ060304617EC-30.2

Supplier

: HUNG YICK METAL COMFANY LIMITED

Manufacturer

: NIPPON STEEL CORPORATION

Sample Receiving Date

: MAR 02, 2006

**Testing Period** 

: MAR 02, 2006 TO MAR 08, 2006

Test Requested

: (1) As specified by client, to determine the Laad, Cadmium & Mercury content in the submitted sample.

(2) Determination of the presence of Hexavalent Chromium Cr(VI) in the submitted

metallic samples.

(3) Determination of PBBs (Polybrominated 3iphenyls), PBDEs (Polybrominated Diphenylethers) of the submitted sample.

Test Method

: (1) Lead content - With reference to EPA method 3050B: 1996 / other acid digestion. Cadmium content - With reference to BS EN1122; 2001 method B / other acid digestion. Mercury content - With reference to EPA 3052: 1996 / 7473: 1998 / other acid digestion. Analysis was performed by Atomic Absorption Spectrometer / Inductively Coupled Plasma Atomic Emission Spectrometer (ICP-AES).

(2) With reference to the Committee Draft of IEC 62321, Ed.1 (Sec. 9.7.2 - Beiling-water-

(3) With reference to EPA 3540C / 3550C, Analysis was performed by GC/M\$.

Results

: Please refer to next page.

Signed for and on behalf of SGS-CSTC Ltd.

Zhang Li, Amy Sr. Engineer

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www.cn.ags.com



No.: GZ0603023198/CHEM

Date: MAR 08, 2006

Fage 2 of 2

Results:

(1)

Lead Content (Pb)(ppm) Cadmium Content (Cd) Mercury Content (Hg)

Note: - N.D. = Not Detected (< 2 ppm)

- ppm = mg/kg

Lt-g ay metal sheet (2)

Hexavalent Chromium Content [Cr(VI)]

Negative

Lt-cray metal sheet

N.D.

N.D.

Note: - Negative means the concentration of Hexavalent Chromi im extracted from 50cm2 sample is less than the detection limit.

- Detection limit of Cr(VI) in solution = 0.02 mg/kg Cr(VI) extracted from 50cm2 sample surface area by boiling-water-extraction method

(3)	Lt gray metal sheet	
Flame Retardants		
Polybrominated Biphenyls (PBBs)		
Monobromobiphenyl	ND	
Dibromobiphenyl -	ND	0.5-
Tribromobiphenyl	ND	
Tetrabromobiphenyl	, ND	
Pentabromobiphenyl	ND	
Hexabromobiphenyl	ND	
Heptabromobiphenyl	ND	
Octabromobiphenyl	ND	
Nonabromodiphenyl	ND	-
Decabromodiphenyl	ND	
Polybrominated Diphenylethers (PBDEs)		
Monobromodiphenyl ether	ND .	
Dibromodiphenyl ether	ND	
Tribromodiphenyl ether	ND	
Tetrabromodiphenyl ether	ND	- 1
Pentabromodiphenyl ether	, ND	
Hexabromodiphenyl ether	. ND	
Heptabromodiphenyl ether	ND	
Octabromodiphenyl ether	ND	- 1
Nonabromodiphenyl ether	ND	
Decabromodiphenyl ether	ND	

Note: - N.D. = Not Detected (< 5 ppm)

- ppm = mg/kg

\*\*\* End of Report \*\*\*



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GZC間 486469



# SGS

Test Report

No.: G20502014292/CHEM

Date: FEB 21, 2008

Page 1 of 2

PROSPERITY WIRE AND CABLE CO., LTD. YIN HU INDUSTRY AREAS, SHI SHUI KOU, QIAO TOU TOWN, DONG GUAN CITY, GUANG DONG, CHINA

Report on the submitted sample said to be MAGNET WIRE

5G\$ Ref No.

57060204589R\$

Main Substance

制。连路波

Sample Receiving Date

. FEB 15, 2006

Testing Period

: FEB 15, 2006 TO FEB 21, 2006

Lest Requested

(1) As specified by client, to determine the Lead, Cadmium & Mercury content in the submitted sample.

(2) Determination of the presence of Hexavalent Chromium Cr(VI) in the submitted

metallic samples.

(3) Determination of PBBs (Polybrominated Biphenyls), PBDEs (Polybrominated Diphonylethers) of the submitted sample.

Test Method

(1) Load content - With reference to EPA method 3050B: 1996 / other acid digestion. Cadmium content - With reference to BS EN1122: 2001 method B / other acid digestion. Mercury content - With reference to EPA 3052, 1996 / other acid digestion. Analysis was performed by Atomic Absorption Spectrometer / Inductively Coupled Plasma Atomic Emission Spectrometer (ICP-AES).

(2) With reference to the Committee Draft of IEC 62321, Ed.1 (Sec. 9.7.2 - Boiling-water-

extraction method)

(3) With reference to EPA 3540C / 3550C. Analysis was performed by GC/MS.

Results

Please refer to next page.

Signed for and on behalf of SGS-CSTC Ltd

Huang Fang, Sunny

Sr Engineer

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GZCM 465601

# SGS

Test Report

No GZ0502014292/CHEM

Date: FEB 21, 2006

Page 2 of 2

Results

141 Lead Content (Pb) Cadmirum Content (Cd) Mercury Cantent (Hg)

3 N.D. N.D.

Coppery metal wire

Note - N.D. = Not Detected (< 2 ppm) ppm = mg/kg

(2)

Coppery metal wire

Hexavalent Chromium [Cr(VI)]

Negativo

Note: - Negative means the concentration of Hexavalent Chromium extracted from 50cm2 sample is less than the detection limit.

Detection limit of Cr(VI) in solution = 0.02 mg/kg Cr(VI) extracted from 50cm<sup>2</sup> sample

surface area by boiling-water-extraction method

(3)	Coppery metal wire
lame Retardants	
Polybrominated Biphenyls (PBBs)	17712
Monobraniobiphenyl	ND
Dibromobiphenyl	ND ND
Fribromobiphenyl	ND
etrabromobipheny!	ND
Pentabromobiphienyl	ND
fexabramobiphenyl	ND
reptabromobiphenyl	ND ,
Octobromobiphenyl	ND
Nonebromodiphenyl	ND
Decabromodiphenyl	ND
Polybrominated Diphenylethers (PBDEs)	
Manobromodiphenyl other	ND
	ND -
Dibromodiphenyl ether	ND
Tribromodiphenyl ether	ND
etrabromodiphenyl other	ND
Pentabromodiphenyl other	ND
Hexabromodiphenyl other	ND
Heptabromodiphenyl ether	ND ND
Octabromadiphenyl ether	ND ND
Nonabromodiphenyl ether	ND ND
Denabromodiphenyl ether	ND

Note: - N.D. - Not Delected (< 5 ppm)

ppm = mg/kg

\*\*\* End of Report \*\*\*

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GZCM 465600

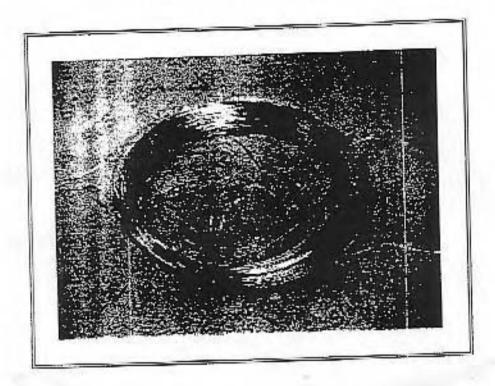


No: GZ0502014292/CHEM

Date: FEB 21, 2006

Page 1 of 1

# PHOTO APPENDIX



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Huang Fang, Sunny Sr. Engineer

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# **Survey Report**

KOAN HAO ENTERPRISE CO., LTD.

29, GUNG YE RD, NANKANG IND. PARK, NANTOU,

TAIWAN R. O. C.

Report No. : CS/2006/30208

Date

: 2006/04/06

Page

The following merchandise was (were) submitted and identified by the client as :

Type of Product

25u B TYPE POLYESTER FILM SILVER MATT (I)

STICKER FOR UL

Style/Item No

BTKSMI25UL

Test Result

THE VERTERS OF T

this is the

255 Timera

- Please see the next page -

\* This report is combined with reports of CV/2006/30125 & CE/2006/24996 \*

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# **Survey Report**

KOAN HAO ENTERPRISE CO., LTD.

29, GUNG YE RD, NANKANG IND. PARK, NANTOU,

TAIWAN R. O. C.

Report No. : CS/2006/30208

: 2006/04/06

Page

: 2 of 4

PART NAME NO.1

SILVER/BRIGHT SILVER COLORED PLASTIC

PILM(CV/2006/30125)

PART NAME NO.2

TRANSPARENT GLUE(CE/2006/24996)

colling and deletes in the			BIDI.	Result	
Test Item (s):	Unit	Method		No.1	Ho.2
Monobromobiphenyl	96	ō	0.0005	N.D.	N.D.
Dibromobiphenyl	96		0.0005	N.D.	N.D.
Tribromobiphenyl	%		0.0005	N.D.	N.D.
Tetrabromobiphenyl	%	USEPA3540C or	0.0005	N.D.	N.D.
Pentabromobiphenyl	%	USEPA3550C. Analysis was	0.0005	N.D.	N.D.
Hexabromobiphenyl	%	performed by HPLC/DAD,	0.0005	N.D.	N.D.
Heptabromobiphenyl	%	LC/MS or GC/MS.	0.0005	N.D.	N.D.
Octabromobiphenyl	%	(prohibited by 2002/95/EC	0.0005	N.D.	N.D.
Nonabromobiphenyl	%	76/769/EEC, and	0.0005	N.D.	N.D.
Decabromobiphenyl	96		0.0005	N.D.	N.D.
Total PBBs (Polybrominated hiphenyla)/Sum of above	96		-	N.D.	N.D.
Monobromobiphenyl ether	96	28	0.0005	N.D.	N.D.
Dibromobiphenyl ether	%	(pt	0.0005	N.D.	N.D.
Tribromobiphenyl other	%		0.0005	N.D.	N.D.
Tetrabromobiphenyl ether	%		0.0005	N.D.	N.D.
Pentabromobiphenyl ether	96		0.0005	N.D.	N.D.
Hexabromobiphenyl ether	%	USEPA3540C or	0.0005	N.D.	N.D.
Heptabromobiphenyl ether	%	USEPA3550C, Analysis was performed by HPLC/DAD,	0.0005	N.D.	N.D.
Octabromobiphenyl ether	%	LC/MS or GC/MS.	0.0005	N.D.	N.D.
Nonabromobiphenyl ether	%		0.0005	N.D.	N.D.
Decabromobiphenyl ether	96		0.0005	N.D.	N.D.
Point PBERs(PBDRs) Polybrominated hiphenyl others(/ Sum of above	%	76/769/EEC)	-	N.D.	N.D.
rotal of Mono to Hone- ecominated hiphenyl other. Note 5]	%		e e	N.D.	N.D.

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# **Survey Report**

KOAN HAO ENTERPRISE CO., LTD. 29, GUNG YE RD, NANKANG IND. PARK, NANTOU,

TAIWAN R. O. C.

Report No. : CS/2006/30208

: 2006/04/06 Date

: 3 of 4 Page

PRODUCTION OF THE PROPERTY OF	2505.15			Result	
Test Item (s):	Unit	Method	MDL -	No.1	No.2
Chromium VI (Cr+6)		UV-VIS after reference to US EPA 3060A.	2	N.D.	N.D.
Cadmium (Cd)	ppm	ICP-AES after reference to EN 1122, method B:2001 or other acid digestion.	2	N.D.	N.D.
Mercury (Hg)	ppm	ICP-AES after reference to US EPA 3052 or other acid digestion.	2	N.D.	N.D.
Lead (Pb)	ppm	ICP-AES after reference to US EPA 3050B or other acid digestion.	2	N.D.	N.D.

NOTE: (1) N.D. = Not detected (<MDL)

(2) ppm = mg/kg

author of Property

(3) MDL - Method Detection Limit

(4) " - " " Not Regulation

(5) " --- " - Not Applicable

(6) Decabromodiphenyl ether (DecaBDE) in polymeric applications is exempted Commission Decision of 13 Oct 2005 amending Directive 2002/95/EC under document 2005/717/EC.

(7) PBBRs-PBDRs-Polybrominated Diphenyl Ethers-PBDOs-PBBOs.

# SGS

# **Survey Report**

reduce and appear

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TAIWAN R. O. C.

Report No. : CS/2006/30208

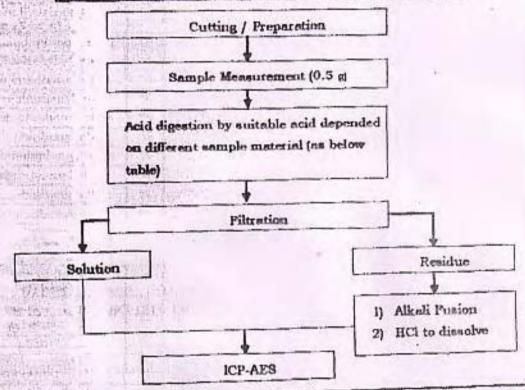
Date : 2006/04/06

Pege :4 of 4

 These samples were dissolved totally by pre-conditioning method according to below flow chart.

- 2) Name of the person who made measurement: Anren Lee
- 3) Name of the person in charge of measurement: Deniel Yeh

Method I: Flow Chart of Dissertion for heavy metal analysis



Steel, copper, aluminum, solder	Agua regia, HNO3, HCl, HF, H2O2
Glass	HNO <sub>5</sub> /HF
Gold, platinum, palladium, ceramic	Aque regia
Silver	HNO <sub>3</sub>
Plastic	H <sub>2</sub> SO <sub>4</sub> , H <sub>2</sub> O <sub>2</sub> , HNO <sub>3</sub> , HCl
Others	Any acid to total digestion

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No.: GZ0605070392/CHEM -

Date: MAY 23, 2006

Page 1 of 2

JIUHFENG GROUP DONGGUAN HUACHANG CONDUCTOR CO., LTD. BAISHA SANCHUN, HUMEN TOWN, DONGGUAN, GUANGDONG, CHINA

Report on the submitted sample said to be BARE COPPER WIRE (获明线)

SGS Rel No.

: SZ060523401RS-5.1

Sample Receiving Date

: MAY 17, 2008

**Testing Period** 

: MAY 17, 2005 TO MAY 23, 2006

Test Requested

: (1) As specified by client, to determine the Lead, Cadmium & Marcury content in the

submitted sample.

(2) Determination of the presence of Hexavalent Chromium Cr(VI) in the submitted

metallic samples.

Test Method

: (1) Lead content - With reference to EPA method 3050B; 1996 / other acid digestion. Cadmium content - With reference to BS EN1122; 2001 method B / other acid digestion. Mercury content - With reference to EPA 3052; 1996 / other acid digestion.

Artalysis was performed by Atomic Absorption Spectrometer / Inductively Coupled Plasma Atomic Emission Spectrometer (ICP-AES).

(2) With reference to the Committee Draft of IEC 62321, Ed.1 (Sec. 9.7.2 – Boiling-water-extraction method)

Results

: Please refer to next page

Signed for and on behalf of SGS-CSTC Ltd.

Zhang Li, Amy Gr. Engineer Tubol Canasi MP

Tubol

It is for the many instead by the Company subject to do Comeral Conditions of Service product overleaf or attached, Said Conditions are also assisted bytes report of the formal of the

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No.: GZ0605070392/CHEM

Date: MAY 23, 2006

Page 2 of 2

Results:

(1)

Lead Content (Pb) Cadmium Content (Cd) Mercury Content (Hg)

Note : - N.D. = Not Detected (< 2 ppm) - ppm = mg/kg

Coppery metal wire

N.D.

N.D.

N.O.

(2)

Coppery metal wire

Hexavelent Chromium Content [Cr[VI)]

Negative

Note: - Negative means the concentration of Hexavalent Chromium extracted from 50cm2 sample is less than the detection Emit.

 Detection limit of Cr(VI) in solution = 0.02 mg/kg Cr(VI) extracted from 50cm<sup>2</sup> sample surface area by boiling-water-extraction method

\*\*\* End of Report \*\*\*



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GZCM 689535

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拂古龙电

TEST REPORT

REPORT NO.KA/2006/61881 DATE: 2006/6/28 PAGE: 1 OF 1

#### 

\_\_\_\_\_

THE FOLLOWING MERCHANDISE WAS WERE) SUBMITTED ON BEHALF OF THE CLIENT AND IDENTIFIED AS:

CLIENZ

: EVER CONNECTOR INDUSTRIAL CO..LTD.

PRODUCT DESCRIPTION

: TERMINAL (PHOSPHOR ERCNZE).

SAMPLE

: AS ATTACHED PHOTO .

TESTING DATE

: 2006/6/21 TO 2006/6/28

SAMPLE RECEIVED

: 2006/06/21.

WE HAVE TESTED THE SAMPLE(S) SUBMITTED AS REQUESTED AND THE FOLLOWING RESULTS WERE DETAINED.

RESULT MOL METHOD UNIT TEST ITEM(S) CP-AES after reference to EN 1122 2001 or 2 2.4. ppm other sold digestion. Cadmium (Cd) UV-VIS(US EPA 7195A) after reference to US 7.4. 2 ppm EPA 308CA Chromium VI (Cr+6) ICP-AES after reference to US EPA 3052 or 2 n.d. spm other add digestion Mercury (Hg) ICP-AES after reference to US EPA 30508 or 22.8 2 pom other acid digestion. Lead (Ph) PBBs(Polybrominated bighenyls) n.d 0.0005 44 n.d. 0.0005 Monobromobiohenvi 94 n.d. 0005 Dibromobiahenvi With reference to USEPA3540C or eV. n.d. 0.0005 Triargmodisheny 4. USEPA3550C, Analysis was performed by 0.0005 n.d. Tetrabromopioneny HPLC/DAD, LC/MS or GC/MS. (prohibited by 0.0005 n.d Pentabromobiohenyl 36 2002/95/EC (RohS), 83/264/EEC, and 0,0006 Hexapromogrameryl TB/TES/EEC) hectabromobiohenv 75 n.d 0.0005 Octabromobichenvi 24 n.d. 0.0005 Nonapremedionary 16 Decapromicolphenyl PECEs(Polybrominated biphenyl 0.0006 a.d. ethers) 0.0005 n.d. Monopromobionenyl einer n.d Dicromodighenyl ether 7//bromodighenyl ether 0.0005 96 With reference to USEPA35400 or 0.0005 n.a 9/4 USEPA355CC. Analysis was performed by 0.0 Tetraoromobionenyi ether 0.0006 HPLC/DAD, LC/MS or GC/MS. (pron/bited by % n.d. Fentabromopiphenyl einer 0.0000 2002/95/EC (RoHS), 83/264/EEC, and 0.0005 3.0. Hexapromobionenvi etner % Heotspromobiohenyl actor 78/769/EEC) 0.0005 n.d. 96 Octabromobiohenyl ether n.d 0.0005 0.5 Nonapromociphenyl ether 2% Decapromobionenyl ether

NOTE: (1) n.c. = nct detected

(2) ppm = mg/kg

(3) MDL \* Method Detection Limit

(4) Any unauthorized alteration, forgery or faisification of the content or appearance of this report is unlawful and offenders, may be prosecuted. Sh T F to the fullest extent of the law.

Kueilan Chen / Asst. Supervisor Sign for and on behalf of SGS Taiwan Limited

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SES Trimen Lot. | No. 202 County Hore 2nd First County Main Copyright Applications. Intwise 人名立方正关语中于二篇(105度) 日本会社所は現代を刊合列 trible 1/303-7025 1/306-7/315 7482



Report No.:SZR06040511555

Date: Apr. 20, 2006

Page 1 of 4

: DONGGUANGUNEETALWIRE & CABLECO.,LTD.

Address : XIN LIAN INDUSTRIAL AREA, HUMEN TOWN DONGGUAN CHINA

Report on the submitted sample said to be:

Sample Name

: 电线

Sample Description

: BLUE/WIRE&CABLE:1007,1032,1095,1185,1354,1618,1619,1792,2464, -2468,2725,2547,2552,2562,2791,2844,2851,2854,2877,2919,2990,2960,20276, 2651,20080,1061,1533,1571,1010,1015,1028,1430,1431,1569,1617,1672,2733, SPT-1(W),20251.SPT-2(W),SPT-3,RG,1394,1107,1365, 1492,1429,2835,1478, UTP,STP,USB,SVT,SJT,CXT,FXT, XT,PXT,XTW,CM,CMX,CMP,MP,MPR,

CL2X,CL2,CL2R,CL3,CL3X,CL3R

Sample Received Date

: Apr. 19, 2006

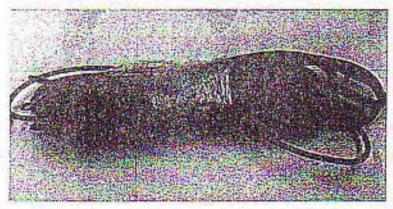
Completed Date

: Apr. 20, 2006

Client Requested

: As specified by client, to integrate the test reports submitted by client,

#### 电线





Conclusion: According to the results of the test reports submitted by client, the sample BLUE/WIRE&CABLE complies with the requirements of EU Roll

5F., Huaqiang logistics, Longzhú Road, Nanshan, Shenzhen, China Tel:86-755-33307999 Fax:86-755-33307988 1F., Building C, Hongwei Industrial zone, Beoan 70 district, Shenzhen, China Tel:86-755-29799666 Fax:86-755-29799699 E-mail:info@cti-cert.com http://www.cti-cert.com

Report No.:SZR06040511555

Date:Apr. 20, 2006

Page 2 of 4

### 电线

No.	Çomponent	Description	Report No.	Laboratory	Date
1	Isulation	Blue plastic pellet	2033048/EC	SGS	2005.08.17
2	Conductor	Silvery metal	2031035/EC	SGS	2005.08.01
3	白色印字	White paint	2032025/EC	SGS	2005.08.09

#### Test Results:

#### Heavy Metal

Elements	Contents			
Diements	1	2	3	
Lead	N.D.	N.D.	3ррт	
Mercury	N.D.	N.D.	N.D.	
Cadmium	N.D.	N.D.	N.D.	
Hexavalent Chromium	N.D.	N.D.	N.D.	
Chromium	+ 1	N.D.	1	





Report No.:SZR06040511555

Date:Apr. 20, 2006

Page 3 of 4

Test Results:

Organic Compounds

Polybrominated Biphenyls(PBBs)

Commounds	Cor	itents
Compounds	1	3 /
Monobromobiphenyl	N.D.	N,D,
Dibromobiphenyl -	N.D.	N.D.
Tribromobiphenyl	N.D.	N.D.
Tetrabromobiphenyl	N.D.	N.D.
Pentabromobiphenyl +	N.D.	N.D.
Hexabromobiphenyl	N.D.	N.D.
Heptabromobiphenyl	. N.D.	N.D.
Octabromobiphenyl	N.D.	N.D.
Nonabromobiphenyl	N.D.	N.D.
Decabromobiphenyl	- N.D.	N.D.

Polybrominated Diphenyl Ethers(PBDEs)

Compounds	Contents		
	1.	3	
Monobromodiphenyl ether	*N.D.	N.D.	
Dibromodiphenyl ether	N.D.	N.D.	
Tribromodiphenyl ether	N,D,	N.D.	
Tetrabromodiphenyl ether	N.D.	N.D.	
Pentabromodiphenyl ether	N.D.	N.D.	
Hexabromodiphenyl ether	N.D.	N.D.	
Heptabromodiphenyl ether	N.D.	N.D.	
Octabromodiphenyl ether	N.D.	N.D.	
Nonabromodiphenyl ether	· N.D.	N.D.	
Decabromodiphenyl ether	N.D.	N.D. MESTING	

Report No.:SZR06040511555

Date: Apr. 20, 2006

Page 4 of 4

Note: -N.D. = Not Detected (<report limit).
-ppm = mg/kg=parts per million.

#### Disclaimer:

- \* The integration report is not equivalent to the test report.
- ★ CTI does not shoulder responsibility for the authenticity of all the test data listed in integration report, which are submitted by the applicants.
- The applicants are responsible for all the legal obligation caused by the inaccuracy and invalidity of the original report.
- \* If this disclaimer contradicts any other terms and conditions of CTI, this disclaimer will prevail.

\*\*\* End of report \*\*\*

Written by

Sandy

Approved by Ja

army

Inspected by

Position

Manager

Date

Apr. 20, 2006

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CTI Physical & Chemical Lab.







No. 2049989/EC

Date: Jan 17 2006

Page 1 of 2

HUISHENG PLASTICS (SHENZHEN) CO., LTD. NO. 2 NINETY-NINE INDUSTRIAL AREA MINZHU VILLAGE, SHAJING TOWN BAGAN DISTRICT OF SHENZHEN

Report on the submitted sample said to be GREEN PVC.

SGS Job No.

1960392

SGS Ref. No.

SZECO050100910RS-3.2

Sample Receiving Date

JAN 10 2006

Testing Period

JAN 10 - 16 2006

Test Requested : With reference to RoHS Directive 2002/95/EC

To determine the Cadmium Content in the submitted sample. 2)

To determine the Lead Content in the submitted sample. 3)

To determine the Mercury Content in the submitted sample. 4)

To determine the Hexavalent Chromium Content on the submitted sample. Determination of PBBs (polybrominated biphenyls), PBDEs (Polybrominated 5) diphenylethers) of the submitted sample.

Test Method

With reference to BS EN 1122:2001, Method B, analysis was performed by : 1) Inductively Coupled Argon Plasma-Atomic Emission Spectrometry (ICP-AES).

With reference to EPA Method 3050B/ 3051/ 3052 Analysis was performed by Inductively Coupled Argon Plaşma-Atomic, Emission 3)

With reference to EPA Method 3051/3052. Analysis was performed by Inductively Coupled Argon Plasma-Atomic Emission

41 With reference to EPA Method 3060A & 7196A. The sample was alkaline digested by using EPA Method 3060A, and then analyzed by using Colorimetric method 7196A (by UV-Vis Spectrophotometer)

With reference to EPA Method 3540C/ 3550C. Analysis was performed by

Test Results : 1-5) Please refer to next page.

Conclusion

: When tested as specified, the submitted sample complies with the requirements of Commission Decision of 18 Aug 2005 amending Directive 2002/95/EC notified under document 2005/618/EC.

Signed for and on behalf of SGS Hang Kong Ltd

Wan Chi Wai, Leo Technical Manager

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SZE 131771

Date: Jan 17 2006

Page 2 of 2

Test Results

Test Item Cadmium (Cd) Lead (Pb) Mercury (Hg) Hexavalent Chromium (Cr et)	Green Plastic ND ND ND ND	Detection Limit 2 ppm 2 ppm 2 ppm 2 ppm 2 ppm	Limit 100 ppm 1000 ppm 1000 ppm 1000 ppm
(Parulta abay		1000	1000 ppm

(Results shown are of the total weight of samples)

Note: ppm = mg/kg ND = Not Detected

Not detected is reported when the reading is less than detection limit value

Flame Retardants	Green Plastic	Datastianti	
Polybrominated Biphenyls .	The second second second	Detection Limit	Limit
(Mono - Deca)	NO 50 ppm -		Canno
Monobromobiphenyl	NÖ		1000 ppr
Dibromobiphenyl		5 ppm	-
Tribromobiphenyl:	ND	5 ppm	
Tetrabromobiphenyl	ND	5 ppm	\
Pentabromobiphenyl	ND	. 5 ppm	N 2
Hexabromobipheny/	ND	- 5 ppm	
Heptabromobiphenyl	ND	5 ppm	-
Octabromoblphenyl	- ND	5 ppm	- "
Nonabromobiphenyl	ND T	5 ppm	
Decabromob/pheny!	ND	5 ppm	**
Polybrominated Diphenylethers	DN	5 ppm	**
Mono - Nona)	3.10	3	
1anobromodiphenyl ether	ND	45 ppm	1000 ppm -
intermediate distribution of the control of the con	ND		1994 Phill .
ibromodiphenyl ether		5 ppm	.44
ribromodiphenyl ether	ND.	5 ppm	-
etrabromodipheriyl ether-	ND I	5 ppm	
entabromodiphenyl ether	ND	5 ppm	
exabromodiphenyl ether	ND	5 ppm	**
Dtabromodiphenyl ether	The second secon	5 ррт	-
tabromodiohenvi ether	ND	5 ppm	- No.
nabromodiphenyl ether	ND	5 ppm	-
cabromodiphenyl ether*	ND	5 ppm	**
te : ppm = mg/kg	ND	5 ppm	See remark

ND = Not Delected

Not detected is reported when the reading is less than detection limit value.

Remark: \* Decabromodiphenyl ether (DecaBDE) in polymeric applications is exempted by Commission Decision of 13 Oct 2005 amending Directive 2002/95/EC notified under document 2005/717/EC.

Remark :-Test was conducted in SGS Hong Kong Limited

\*\*\* End of Report \*\*\*

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2/F. Casta: Building, Enongkang Road Shangtréilin, Shenzhan China 518049

1 (88-755)82114358



Date: May 19 2006 No. 2059812/EC - 2

HUISHENG PLASTIC (SHENZHEN) CO., LTD. NO, 2 NINETY-NINE INDUSTRIAL AREA MINZHU VILLAGE, SHAJING TOWN BAOAN DISTRICT OF SHENZHEN

Report on the submitted sample said to be BLACK PVC

SGS Job No. 1014733 SGS Ref No.

SZEC0060420715RS-3:12 Supplier/ Manufacturer HUISHENG S Sample Receiving Date MAY 12 2006

Testing Period MAY 12 - 19 2006

Test Requested

With reference to SONY SS-00259

- 1) To determine the Cadmium Content in the submitted sample.
- To determine the Lead Content in the submitted sample,
- To determine the Mercury Content in the submitted sample,
- 4) . To determine the Hexavalent Chromium Content on the submitted
- Determination of PBBs (polybrominatet/ blohenyls), PBDEs (Polyprominated diphenylethers) of the submitted sample.

Pre-conditioning and Measurement Method

1-3) With reference to EPA Method 3051/ 3052.

Analysis was performed by Inductively Coupled Argon Plasma-Atomic

.: Emission Spectrometry (ICP-AES).

With reference to EPA Melnod 3060A & 7196A. The sample was alkeline digested by using EPA Method \$060A, and then analyzed by using Colorimetric method 7196A

(by UV-Vis Spectrophotometer).

With reference to EPA Method 3540C/ 3550C. Analysis was performed by GC/MS or LC/ MS.

Test Results

1-5) Please refer to the next page

Signed for and on behalf of SGS Hong Kong Ltd

Wan Chi Wai, Leo Technical Manager .: 20001

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SZE 159946



Mércury (Hg) Héxavalent Chromium (Gr.

its shown are of the total weight of samples).

ppm = mg/kg ND = Not Detected

Flame Retardants	Black Plastic	-Detection Limit
Polybrominated Biphenyls (PBBs)	PER LEGISLE	THE REPORT OF THE PARTY.
Monobromobiphenyl	COND	35 ppm
Dibromobiphenyl	NO. P. NO. P. S.	5 ppm
Tribramobiphenyl	ND C. TU	34 40 5 ppm -
Tetrabromobiphenyl c	S ND CONTRACTOR	C 5 ppm
PentabromobiphenyP = CP	S ND CD	5 pom 25
'Hexabromobiphenyl CO	AS TEXNO	5 ppm
Heotabromoblphenyl >	ND ND	5.ppm
Octabromobiphenyl	ND a sec	20 45 ppm
Nonabromobiphenyl -	- SND A2	5 ppm 9
Decabromobiphenyl	トライトNDマートサー	12 5 ppm 25
Polybrominated Diphenylethers (PBDEs)	CAN SAFE TO THE SAFE	
Monobromodiphenyl ether	ND S MOS	5 ppm
Dibromodiphenyl ether 2000 - 0	ND A TO	5.ppm (4.9)
Tripromodiphenyl ether	A ND CAME	5 ppm 20 200
Tetrabromodiphenyl ether	ND ND	5 ppm C.
Pentabromodiphenyl ether	- AND G	
Hexabromodiphenyl ether	ST PNDC	5 ppm
Heptabromodipherryl ether	ND2	C. 5 ppm 3 19
Octabromodiphenyl ether 2	ND ND TE	5 ppm 5
Nonabromodiphenyl ether	ND P	5 ppm = 2
Decabromodiphenyl ether	TO SHARE THE STATE OF THE STATE	25 ppm - 35
The state of the s	Control of the Contro	Control of the Contro

ppm = mg/kg cND = Not Detected Not detected is reported when the reading is less than detection limit value

was conducted in SGS Hong Kong Limited

No. 2059812/EC

Date : May 19 2006

Page 3 of

(EPA 3051/3052 for ed. Pb)

Sample measurement (0.25g)

Coutting/Preparation

Microwave digestion 24 with HN93 or HN93 and HF

Total digestion

ICP-AES

DATA

The samples were dissolved totally by pre-conditioning method according to above flow chart.

Operator

Chow Fuk Fung

Section Chief

Wan Chi Wai, Leo

This Texture I study by the Company subject to its General Conditions of Service provide overlead of situating 3. Sale Conditions are also available to the condition of the con

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Test Report

No. 2059812/E

Date : May 19 200

Page 4 of

PHOTO APPENDIX



SGS authenticate the photo on original report only

End of Report

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No.: GZSCR051193565/LP

Date: DEC 05, 2005

Page 1 of 4

DONGGUAN WONDERFUL WIRE & CABLE FACTORY. LONG-YAN INDUSTRIAL AREA, HUMEN, DONGGUAN, GUANGDONG, CHINA

Report on the submitted sample said to be PVC 胶粒 (黄色)

1007 果列、1015 系列、10272 系列、1032/1028 系列、1061 系列、1617 系列、

1095 系列、1571 系列、1316/1452 系列、1430 系列、1569 系列、1365 系列、

2547 系列、2854 系列、1431 系列、2835 系列、2877 系列、1010 系列、2552 系列、

1533 系列、1185 系列、1618 系列、2919 系列、1354 系列、1691 系列、1792 系列、 2468 系列、2725 系列、2651 系列、1500 系列、2844 系列、2877 系列、2960 系列、

2990 系列、2562 系列、1672 系列、2791 系列、2517 系列、2851 系列、1230 系列、

2464 系列、2733 系列、20246 系列、20276 系列、20288 系列、SJTO 系列、

SJTOW 系列、SJTOOW 系列、STO 系列、STOO 系列、STOW 系列、SJTOO 系列

STOOW 系列、SPT-1.2.3 系列、SJT 系列、SVT 系列、ST 系列、NISPT-1.2 系列、

STP 系列、UTP 系列、USB 系列、H03 系列。H05 系列、VFF 系列、VCTFK 系列、

VCTF 系列、VSF 系列、VCT 系列、LTSA 系列、HVCTF 系列、GTSA 系列、 HVFF 系列、HVSF 系列、CMP 系列、XTW 系列、CXTW 系列、CL3P 系列、

日規同軸線系列、國標 3C 認証線材系列、汽車用線系列及非模線系列等。

SGS Ref No.

: GZ051117040EC-25.18

Buyer

: SONY

Sample Receiving Date

: NOV 29, 2005

Testing Period

NOV 29, 2005 TO DEC 05, 2005

Test Requested

: (1) As specified by client, to determine the Lead, Cadmium, Mercury & Hexavalent Chromium content in the submitted sample.

(2) Determination of PBBs (polybrominated biphenyls), PBDEs (Polybrominated)

diphenylethers) of the submitted sample.

Test method

(1) Cadmium content : With reference to BS EN 1122:2001 Method B see flowchart (1) . Lead content: Ashing after wet decomposition see flowchart (2). Mercury content - With reference to EPA 3052: 1996 / 7473: 1998. Hexavalent Chromium content - With reference to EPA 3060A: 1996 & EPA 7196A: 1992. Analysis was performed by Atomic Absorption Spectrometer / Inductively Coupled Plasma Atomic Emission Spectrometer (ICP-AES) / Direct Mercury analyzer / UV-VIS

Spectrophotometer. (2) With reference to EPA 3540C / 3550C. Analysis was performed by GC/MS.

Results

: Please refer to next page.

Signed for and on behalf of SGS-CSTC Ltd.

Huang Fang, Sunny Sr. Engineer

万条	特質制試報告管制章 Pb Max頃: FV V
Mation (CL: 11)	Cd Maxin: N.D
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No.: GZSCR051193565/LP

Date: DEC 05, 2005

Page 2 of 4

Results:

(1)

	Yellow plastic grains
Lead Content (Pb) Cadmium Content (Cd) Mercury Content (Hg)	N.D. N.D. N.D.
Hexavalent Chromium Content [Cr(VI)]	N.D.

Note: - N.D. = Not Detected (< 2 ppm) - ppm = mg/kg

(2)

p	Yellow plastic grains
Flame Retardants	
Polybrominated Biphenyls (PBBs)	
Monobromobiphenyl	ND ND
Dibromobiphenyl	i ND
Tribromobiphenyl	ND ND
Tetrabromobiphenyl	ND
Pentabromobiphenyl ; /	ND .
Hexabromobiphenyl L	\ ND
Heptabromobiphenyl	ND ND
Octabromobiphenyl .	ND ND
Nonabromodiphenyl	/ ND
Decabromodiphenyl	/ ND
Polybrominated Diphenylethers (PBDEs)	
Monobromodiphenyl ether I	ND
Dibromodiphenyl ether /	ND
Tribromodiphenyl ether	ND
Tetrabromodiphenyl ether	ND
Pentabromodiphenyl ether	ND
Hexabromodiphenyl ether	ND
Heptabromodiphenyl ether	ND
Octabromodiphenyl ether	ND
Nonabromodiphenyl ether	ND
Decabromodiphenyl ether	ND

Note: - N.D. = Not Detected (< 5 ppm)

- ppm = mg/kg

\*\*\* End of Report

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GZCM 384064

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1 (86-20)82155555 1 (86-20)82075113 1 ags.dhira@ags.com

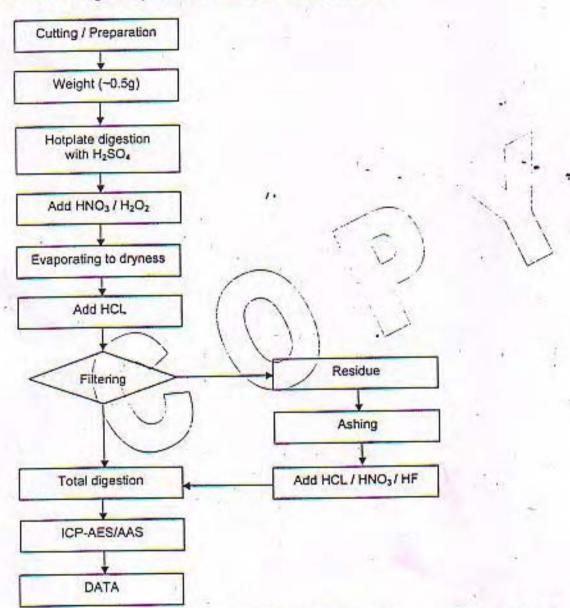


No.: GZSCR051193565/LP

Date: DEC 05, 2005

Page 4 of 4

Flow chart of digestion (wet decomposition and ashing) (Lead content) :



The samples were dissolved totally by pre-conditioning method according to above flow chart.

Operator

: Vincent Li

Leader

: Adams Yu

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No.: GZSCR051193565/LP

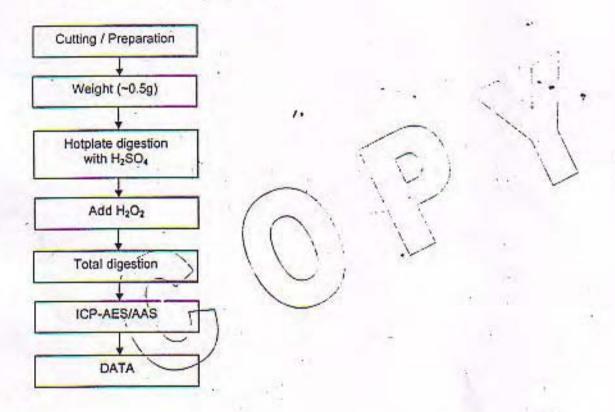
Date: DEC 05, 2005

Page 3 of 4

# **ATTACHMENTS**

(1)

Flow chart of digestion (Cadmium content):



The samples were dissolved totally by pre-conditioning method according to above flow chart.

Operator

: Sams Deng

Leader

: Joe Li

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19. GEZHU Rani, SCENTECH Part Georgeon Economic & Sedwology Osentaparent District, Georgeon, Chem 5 19863 t (86-20) 82 1555555 f (86-20) 82 2075 11.3 中国 - 广州 - 经济技术开发区科学城科政路198号 邮埠:510683 1(86-20)82155555 1(86-20)82075113



No.: GZ0602013190/CHEM

Date: FEB 17, 2006

Page 1 of 4

JUST MAKE ELECTRONICS CO LTD XINIU PI INDUSTRIAL, DALANG TOWN, DONGGUAN

Report on the submitted sample said to be HOUSING (米黄色)

SGS Ref No.

: SZ060203731RS-5.1

Model No.

: JP2411 重列

Lot No.

: JMT060202

Material

NYLON

Main substance

: NYLÓN

Buyer

: SONY, SAMSUNG, LG

Supplier

: DUPONT

Sample Receiving Date

FEB 13, 2006

Testing Period

: FEB 13, 2006 TO FEB 17, 2006

Test Requested

- (1) As specified by client, to determine the Lead, Cadmium, Mercury & Hexavalent Chromium content in the submitted sample.
  - (2) Determination of PBBs (Polybrominated Biphenyls), PBDEs (Polybrominated Diphenylethers) of the submitted sample.

Test method

: (1) Cadmium content : With reference to BS EN 1122:2001 Method B see flowchart (1) . Lead content : Ashing after wet decomposition see flowchart (2) .

Mercury content - With reference to EPA 3052: 1996 / 7473: 1998.

Hexavalent Chromium content - With reference to EPA 3060A: 1996 & EPA 7196A: 1992. Analysis was performed by Atomic Absorption Spectrometer / Inductively Coupled Plasma

Atomic Emission Spectrometer (ICP-AES) / Direct Mercury analyzer / UV-VIS

Spectrophotometer.

(2) With reference to EPA 3540C / 3550C, Analysis was performed by GC/MS.

Results

: Please refer to next page.

Signed for and on behalf of SGS-CSTC Ltd.

So

Huang Fang, Sunny Sr. Engineer デ型 理性美 N.P Gyobrol N.D 連任美 Oと 沙崎学 Ob 3 は 8年 Ob 3 は

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GZCM 2096 C



No.: GZ0602013190/CHEM

Date: FEB 17, 2006

Page 2 of 4

## Results

Item	Unit	MDL	Beige plastic housing
Lead Content (Pb)	ppm	2	N.D.
Cadmium Content (Cd)	ppm	2	N.D.
Mercury Cantent (Hg)	ppm	2	N.D.
Hexavalent Chromium (Cr VI)	ppm	2	N.D.

Note: - N.D. = Not Detected (< MDL)

- MDL= Method Detection Limit

- ppm = mg/kg

(2)

	Beige plastic housing
Flame Retardants	
Polybrominated Biphenyls (PBBs)	
Manobramabiphenyl	N.D.
Dibromobiphenyl	N.D.
Tribromobiphenyl	N.D.
Tetrabromobiphenyl	N.D.
Pentabromobiphenyl	N.D.
Hexabromobiphenyl	N.D.
Heptabromobiphenyl	N.D.
Octabromobiphenyl	N.D.
Nonabromodiphenyl	Ņ.D.
Decabromodiphenyl	N.D.
Polybrominated Diphenylethers (PBDEs)	
Monobromodiphenyl ether	N.D.
Dibromodiphenyl ether	N.D.
Tribromodiphenyl ether	N.D.
Tetrabromodiphenyl ether	N.D.
Pentabromodiphenyl ether	N.D.
Hexabromodiphenyl ether	N.D.
Heptabromodiphenyl ether	N.D.
Octabromodiphenyl ether	N.D.
Nonabromodiphenyl ether	N.D.
Decabromodiphenyl ether	N.D.

Note: - N.D. = Not Detected (< 5 ppm)

- ppm = mg/kg

\*\*\* End of Report \*\*\*

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No.: GZ0602013190/CHEM

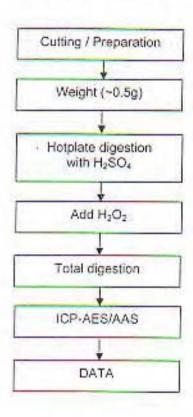
Date: FEB 17, 2006

Page 3 of 4

## ATTACHMENTS

(1)

Flow chart of digestion (Cadmium content):



The samples were dissolved totally by pre-conditioning method according to above flow chart.

Operator

: Sams Deng

Leader

Joe Li

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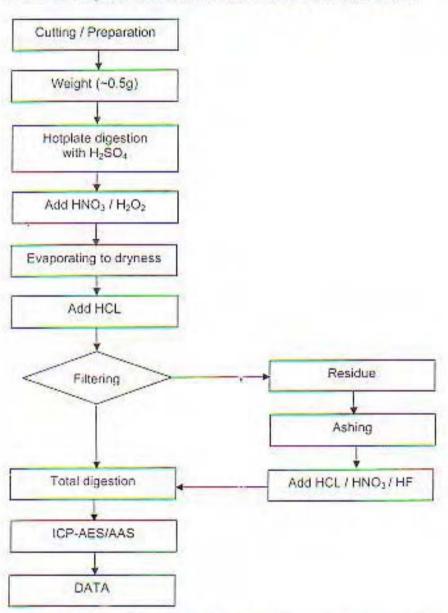


No.: GZ0602013190/CHEM

Date: FEB 17, 2006

Page 4 of 4

(2) Flow chart of digestion (wet decomposition and ashing) (Lead content):



The samples were dissolved totally by pre-conditioning method according to above flow chart.

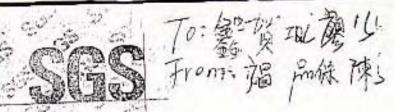
Operator

: Vincent Li

Leader

: Adams Yu

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Report

No.: GZSCR051185022/LP\*

Date: NOV 17, 2005

Page 1 of 1

IN THE ROAD OF BUIBU GAD, KONG BA VILLAGE DEVELOPING ZONE, WU SHA, CHANG AN, DONG GUAN, GUANG DONG PROVINCE, CHINA

Report on the submitted sample said to be EXFP32510G6 (SPRING-SUS304)

SGS Ref No.

SZ051123611EC-2.1

Buyer

KINPO

Manufacturer/Supplier

KKOS/MANHO/KUANG TAI/DUCK

Item/Style/Ref. No.

EXFP32510G6 NOV 07, 2005

Sample Receiving Date: Testing Period

NOV 07, 2005 TO NOV 11, 2005

Test Requested

: As specified by client, to determine the Lead, Cadmium, Mercury & Hexavalent Chromium

, content in the submitted sample.

est Method

; Lead content - With reference to EPA method 3050B; 1998 (other acid digestion. Cadmium content - With reference to BS EN1122: 2001 method B / other acid digestion. Mercury content - With reference to EPA 3052 1996 / 7473; 1998 / other acid digestion. Hexavalent Chromium content - With reference to ERA 3060A: 1996 & ERA 7196A:

1992 / acid digestion. Analysis was performed by Atomic Absorption Spectrometer / Inductively Comled Plasma Atomic Emission Spectrometer (ICP-AES) / Direct Mercury analyzer / 'IV-VIS

Spectrophotomeler.

Silvery-grey metal spring

Lead Content (Pb)

Cadmium Content (Cd)

Mercury-Content (Hg)

Hàxavalent Chromium Content [Cr(VI)]

N.D.

N.D.

N.D.

N.D.

Note: - N.O. = Not Detected (< 2 ppm)

- ppm = mg/kg

.: Revised report

\*\*\* End of Report \*\*\*

Signed for and on behalf of

Zhang Li, Amy

sauge by the Company subject to its General Conditions of Service printed overleaf or attached. Said Conditions are also occare accessible at www.sgs.com. Attention is drawn to the limitations of liability, indemnification and jurisdictional policies ulls shown in this Test Report refer only to the sample(s) tested unless otherwise stated and such sample(s) are retained Report shall not be reproduced except in full, without written approval of the Company

GZCM 365254

£ (56-20)92155555 £ (95 20)52075113 e sgs.chiro@sqs.com



No. SH6024497/CHEM

Date: 3.23,2006

Page 1 of 3

SHANGHAI KYOCERA ELECTRONICS CO.,LTD NO.2077 NEW JIN QIAO ROAD JIN QIAO PUDONG SHANGHAI

Report on the submitted sample said to be CERAMIC CHIP CAPACITORS.

SGS Ref No.

: SHEC0060309876-1

Model

: CM-Y5V

Sample Receiving Date : Mar. 08, 2006 Testing Period

: Mar. 08 - 13, 2006

Test Requested

- : 1) To determine the Cadmium Content in the submitted sample.
- To determine the Lead Content in the submitted sample. 3) To determine the Mercury Content in the submitted sample.
- 4) To determine the Hexavalent Chromium Content on the submitted sample.
- 5) To determine the PBBs(Polybrominated biphenyls) PBBEs(PBDEs) (Polybrominated biphenyl ethers) Content of the submitted sample.

Test method

- : 1) With reference to BS EN 1122:2001, Method B or other acid digestion Analysis was performed by Inductively Coupled Argon Plasma - Atomic Emission Spectrometry (ICP-AES) or Atomic Absorption Spectrometry.
  - 2) With reference to EPA Method 3050B/ 3051/ 3052, or other acid digestion Analysis was performed by Inductively Coupled Argon Plasma-Atomic Emission Spectrometry (ICP-AES) or Atomic Absorption Spectrometry.
  - 3) With reference to US EPA 3052 or other acid digestion, Analysis was performed by Inductively Coupled Argon Plasma - Atomic Emission Spectrometry (ICP-AES) or US EPA7473 Analysis was performed by Hg Analyzer.
- 4) With reference to EPA Method 3060A & 7196A.

The samples were alkaline digested by using EPA Method 3060A, and then

analyzed by using Colorimetric method 7196A.

5)With reference to USEPA 8081A/8270D/3540C/3550C, Analysis was performed by GC-MS.

Test Results

: Please refer to next page

Signed for and on behalf of SGS-CSTC Chemical Laboratory

Ella Zhang

Sr. Section Head

No. SH6024497/CHEM

Date: 3.23,2006

Page 2 of 3

lest Re	suits
No.	

No.	Item	11min	-	1
1	Cadmium (Cd)	Unit	DL	A.
2	Lead (Pb)	mg/kg	2	N.D
3	Mercury (Hg)	mg/kg	2	N.D
4	Hexavalent Chromium (Cr VI)	mg/kg	2	N.D.
	Polybrominated biphenyls (PBBs)	mg/kg	2	N.D.
	Monobromobiphenyl	-	-	_
	Dibromobiphenyl	mg/kg	5	N.D.
	Tribromobiphenyl	mg/kg	5	N.D.
	Tetrabromobiphenyl	mg/kg	5	N.D.
	Pentabromobiphenyl	mg/kg	5	N.D.
11	Hexabromobiphenyl	mg/kg	5	N.D.
	Heptabromobiphenyl	mg/kg	5	N.D.
	Octabromobiphenyl	mg/kg	5	N.D.
	Nonabromobiphenyl	mg/kg	5	N.D.
- 1	Decabromobiphenyl	mg/kg	5	N.D.
		mg/kg	5	N.D.
-	Polybrominated biphenyl ethers ( PBBEs(PBDEs) )	-	_	_
	Monobromobiphenyl ether	mg/kg	5	N.D.
	Dibromobiphenyl ether	mg/kg	5	N.D.
	ribromobiphenyl ether	mg/kg	5	N.D.
	etrabromobiphenyl ether	mg/kg	5	N.D.
	entabromobiphenyl ether	mg/kg	5	N.D.
-	exabromobiphenyl ether	mg/kg	5	N.D.
	eptabromobiphenyl ether	mg/kg	5	N.D.
0	ctabromobiphenyl ether	mg/kg	5	
	onabromobiphenyl ether	mg/kg	5	N.D.
P	ecabromobiphenyl ather			N.D.
		mg/kg	5	N.D.



No. SH6024497/CHEM

Date: 3.23,2006

Page 3 of 3

Sample Appearance Description(Photo see appendix):

A. Grey capacitor(mix all)

Note: 1mg/kg=1ppm=0.0001% DL= Detection Limit

N.D. = Not detected Not Detected is reported when the reading is less than detection limit value.

Not Detected is reported when the reading is less than detection limit value.

"The sample(s) was analyzed on behalf of the applicant as mixing whole/part sample in one testing. The result(s) in report means average of whole sample. The result(s) will be different obviously if the sample(s) was tested as requirement of RoHS, and result(s) may be higher than that of report. The sample of the responsibility of all discrepancy and risk. applicant will take the responsibility of all discrepancy and risk.

\*\*\* End of Report \*\*\*\*



No. SH6023992/CHEM

Date: 3.23,2006

Page 1 of 3

1 3. F.

SHANGHAI KYOCERA ELECTRONICS CO., LTD NO.2077 NEW JIN QIAO ROAD JIN QIAO PUDONG SHANGHAI

Report on the submitted sample said to be CERAMIC CHIP CAPACITORS.

SGS Ref No.

: SHEC0060207449

Model

: CM-X5R (X7R)

Sample Receiving Date : Mar. 08, 2006

Testing Period

: Mar. 08 - 13, 2006

**Test Requested** 

- : 1) To determine the Cadmium Content in the submitted sample.
- 2) To determine the Lead Content in the submitted sample. 3) To determine the Mercury Content in the submitted sample.
- 4) To determine the Hexavalent Chromium Content on the submitted sample.
- 5) To determine the PBBs(Polybrominated biphenyls) PBBEs(PBDEs) (Polybrominated biphenyl ethers) Content of the submitted sample.

Test Method

- : 1) With reference to BS EN 1122:2001, Method B, or other acid digestion. Analysis was performed by Inductively Coupled Argon Plasma-Atomic Emission Spectrometry (ICP-AES) or Atomic Absorption Spectrometry.
- 2) With reference to EPA Method 3050B/ 3051/ 3052, or other acid digestion Analysis was performed by Inductively Coupled Argon Plasma-Atomic Emission Spectrometry (ICP-AES) or Atomic Absorption Spectrometry.
- 3) With reference to US EPA 3052 or other acid digestion, Analysis was performed by Inductively Coupled Argon Plasma - Atomic Emission Spectrometry (ICP-AES) or US EPA7473 Analysis was performed by Hg Analyzer.
- 4) With reference to EPA Method 3060A & 7196A. The samples were alkaline digested by using EPA Method 3060A, and then analyzed by using Colorimetric method 7196A.
- 5) With reference to USEPA 8081A/8270D/3540C/3550C, Analysis was performed by

Test Results

: Please refer to next page

Signed for and on behalf of SGS-CSTC Chemical Laboratory

> Ella Zhang Sr. Section Head

n by SGS RSTS Date

# SGS

**Test Report** 

No. SH6023992/CHEM

Date: 3,23,2006

Page 2 of 3

. 4.

No.	Item			
1	Cadmium (Cd)	Unit	DI	A.
2	Lead (Pb)	mg/kg	2	N.D
3	Mercury (Hg)	mg/kg	2	N.D
4	Hexavalent Chromium (Cr VI)	mg/kg	2	N.D
	Polybrominated biphenyls (PBBs)	mg/kg	2	N.D.
	Monobromobiphenyl	-	-	-
	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.
200	Heptabromobiphenyl	mg/kg	5	N.D.
	Octabromobipheny!	mg/kg	5	N.D.
3	Nonabromobiphenyl	mg/kg	5	N.D.
. 1	Decabromobiphenyl	mg/kg	5	N.D.
	Polybrominated biphenyl ethers ( PBBEs(PBDEs) )	mg/kg	5	N.D.
	Monobromobiphenyl ether	-	-	_
	Dibromobiphenyl ether	mg/kg	5	N.D.
	ribromobiphenyl ether	mg/kg	5	N.D.
	etrabromobiphenyl ether	mg/kg	5	N.D.
-	entabromobiphenyl ether	mg/kg	5	N.D.
	exabromobiphenyl ether	mg/kg	5	N.D.
	eptabromobiphenyl ether	mg/kg	5	N.D.
	ctabromobiphenyl ether	mg/kg	5	N.D.
	onabromobiphenyl ether	mg/kg	5	N.D.
	ecsbromobiphenyl ether	mg/kg	5	N.D.
	The state of the s	mg/kg	5	N.D.

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No. SH6023992/CHEM

Date: 3.23.2006

Page 3 of 3

Sample Appearance Description(Photo see appendix):

A Light grey capacitor (mix all)

Note: 1mg/kg=1ppm=0.0001% DL= Detection Limit N.D. = Not detected

Not Detected is reported when the reading is less than detection limit value.

The sample(s) was analyzed on behalf of the applicant as mixing whole/part sample in one testing. The result(s) in report means average of whole sample. The result(s) will be different obviously if the sample(s) was tested as requirement of RoHS, and result(s) may be higher than that of report. The applicant will take the responsibility of all discrepancy and risk.

\*\*\* End of Report \*\*\*



No. 2074452/EC

Date: Sep 13 2006

Page 1 of 3

NUCOMTRONIC COMPANY LIMITED YONGKOU VILLAGE HOUJIE TOWN DONGGUAN CITY DONGGUAN

Report on the submitted sample said to be CAPACITOR (電容).

SGS Job No.

1030780

SGS Ref. No.

SZ10065914-4.4

Material

NPO

Sample Receiving Date Testing Period

SEP 07 2006

SEP 07-13 2006

Test Requested

: (1-3) With reference to the RoHS Directive 2002/95/EC, and its amendment directives.

Test Method

- With reference to EPA Method 3051A/ 3052 for Cadmium, Lead and Mercury content. : (1) Analysis was performed by ICP/ AAS.
  - With reference to EPA Method 3060A & 7196A for Hexavalent Chromium content. (2)The sample was alkaline digested by using EPA Method 3060A, and then analyzed by using Colorimetric method 7196A (by UV-Vis Spectrophotometer).
  - With reference to EPA Method 3540C/ 3550C for PBB/ PBDE content. (3)Analysis was performed by GC/MS

Test Results

: Please refer to next page.

Conclusion

: Based on the performed tests on submitted sample, the result Indicates no conflict with the RoHS Directive 2002/95/EC and its subsequent amendments.

Signed for and on behalf of SGS Hong Kong Ltd

Wan Chi Wai, Leo Technical Manager



No. 2074452/EC

Date: Sep 13 2006

Page 2 of 3

Test results by chemical method (Unit: mg/kg)

1-3)

	1	MDL	Limit
Cadmium(Cd)	ND	2	100
Lead (Pb)	ND	2	1000
Mercury (Hg)	ND	2	1000
Hexavalent Chromium (CrVI) by EPA 3060A	ND	2	1000
Polybrominated Biphenyl (PBBs)	ND	50	1000
Monobromobiphenyl	ND	5	
Dibromobiphenyl	ND	5	
Tribromobiphenyl	ND	5	
Tetrabromobiphenyl	ND	5	
Hexabromobiphenyl	ND	5	
Pentabromobiphenyl	ND	5	
Heptabromobiphenyl	ND	5	
Octabromobiphenyl	ND	5	
Nonabromobiphenyl	ND	5	
Decabromobiphenyl	ND	5	
Polybrominated Diphenylethers (PBDEs)*	ND	45	1000
Monobromodiphenyl ether	ND	5	15
Dibramadiphenyl ether	ND	5	
Tribromodiphenyl ether	ND	5	
Tetrabromodiphenyl ether	ND	5	
Pentabromodiphenyl ether	ND	5	
Hexabromodiphenyl ether	ND	5	
Heptabromodiphenyl ether	ND	5	
Octabromodiphenyl ether	ND -	5	
Nonabromodiphenyl ether	ND	5	
Decabromodiphenyl ether*	ND	5	
Sum PBDE (Mono to Deca) *	ND	50	

## Note:

- (1) mg/kg = ppm
- (2) MDL = Method Detection Limit
- (3) ND = Not Detected (Less than MDL)
- (4) <= Less Than
- (5) \*= sum of Mono to NonaBDE & according to 2005/717/EC DecaBDE is exempt.
- (6) -= Not Conducted
- (7) The maximum permissible limit is quoted from the document 2005/618/EC amending RoHS directive 2002/95/EC

# Sample Description:

1. Dk. Grey Ceramic w/ Silvery Metal

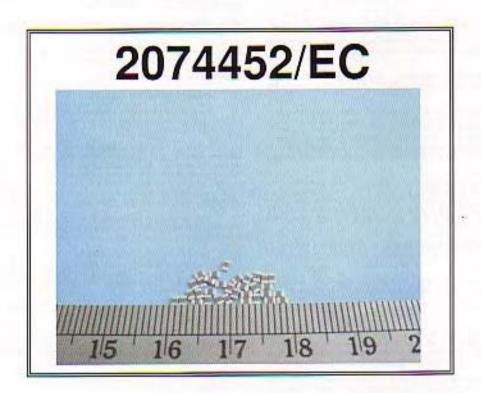


No. 2074452/EC

Date : Sep 13 2006

Page 3 of 3

Sample photo:



SGS authenticate the photo on original report only

""End of Report""



No. SH6076118/CHEM

Date: Jun. 26, 2006

Page 1 of 3

UNIROYAL ELECTRONICS INDUSTRY CO., LTD. 21 XIAJIA NORTH ROAD, ECONOMIC & TECHNICAL DEVELOPMENT ZONE, KUNSHAN CITY, JIANGSU

Report on the submitted sample said to be THICK FILM CHIP RESISTORS(TERMINAL LEAD FREE)

SGS Ref No.

10009807-3

Buyer

ASUS

Supplier Model No.

\*\*\*\* SAF\*\*\*\*B\*\*

Sample Receiving Date: Jun.21, 2006

Testing Period

Jun 21 -26, 2006

Test Requested

- To determine the Cadmium Content of the submitted sample.
- 2) To determine the Lead content of the submitted sample.
- 3) To determine Mercury Content of the submitted sample.
- To determination of the presence of Hexavalent Chromium Cr(VI) in the submitted sample.
- 5) To determine the PBBs(Polybrominated biphenyls) PBBEs(PBDEs) (Polybrominated biphenyl ethers) Content of the submitted sample.

Test method

- 1) With reference to BS EN 1122 2001, Method B or other acid digestion Analysis was performed by Inductively Coupled Argon Plasma - Atomic Emission Spectrometry (ICP-AES) or Atomic Absorption Spectrometry
- 2) With reference to EPA Method 3050B/ 3051/ 3052, or other acid digestion Analysis was performed by Inductively Coupled Argon Plasma-Atomic Emission Spectrometry (ICP-AES) or Atomic Absorption Spectrometry
- 3) With reference to US EPA 3052 or other acid digestion. Analysis was performed by Inductively Coupled Argon Plasma - Atomic Emission Spectrometry (ICP-AES) or US EPA7473 Analysis was performed by Hg Analyzer
- 4) Nonmetallic sample. With reference to the Committee Draft of IEC 62321, Ed.1 (Sec. 10.1) - alkaline digestion Procedure.
- With reference to USEPA 8051A/8270D/3540C/3550C, Analysis was performed by GC-MS

Test Results

Please refer to next page

Signed for and on behalf of SGS-CSTC Chemical Laboratory

> Ella Zhano Sr. Section Head

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SHCHEM 813386



	Report No. SH6076118/CHEM			
Va.	ltem	Unit	DL	At
1	Cadmium (Cd)	mg/kg	2	N.D.
2	Lead (Pb)	mg/kg	2	N.D.
3	Mercury (Hg)	mg/kg	2	N.D.
4	Hexavalent Chromium [Cr(VI)]	mg/kg	2	N.D.
	Polybrominated biphenyls (PBBs)			-
	Monobromob phenyl	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.
15	Octabromob phenyl	mg/kg	- 5	N.D.
	Nonabromobiphenyl	mg/kg	5	N.D
N. i	Decabromobiphenyt	mg/kg	- 5	N.D.
5	Polybrominated biphenyl ethers ( PBBEs(PBDEs) )	The Later	-	
	Monobromobiohenyl ether	mg/kg	5	N.D.
	Dibromopiphenyl ether	mg/kg.	5	N.D.
	Tribromobiphenyl ether	. mg/kg	-5	N.D
	Tetrapromobiphenyl ether	mg/kg	5	N.D.
	Pentabromobiphenyl ether	mg/kg	5	N.D.
	Hexabromobiphenyl ether	mg/kg	.5	N.D.
	Heptabromobiphenyl ether	mg/kg	5	N.D.
	Octabromobiphenyl ether	mg/kg	5	N.D.
	Nonabromobiphenyl ether	mg/kg	5	N.D.
	Decabromotiphenyl ether	mg/kg	5	N.D

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SHCHEM 813385

WORK Special International Co., Cl. 107, No. Building No. 655, No. St. Company, China 200211

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A DESCRIPTION A NAME OF THE



No. SH6076118/CHEM

Date Jun 26, 2006

Page 3 of 3

Sample Appearance Description (Photo see appendix)

A. Black-white resistor body (mot al)

Note 1mg/kg=1ppm=0.0001%

DL= Detection Limit

N.D. = Not detected

Not Detected is reported when the reading is less than detection limit value

\* The sample was analyzed on behalf of the applicant as mixing whole sample in one testing. The result in report means average of whole sample. The result will be different obviously if the sample was/were tested as requirement of ROHS, and result may be higher than that of report. The applicant will take the responsibility of all discrepancy and risk.

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SHCHEM 813384

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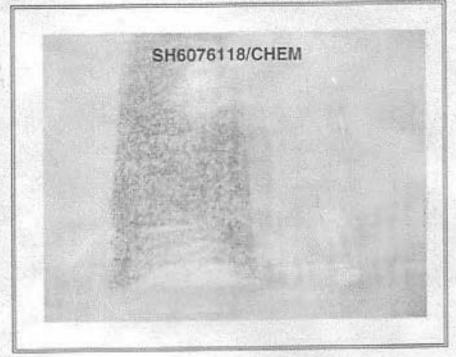
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No. SH6076118/ CHEM

Page 1 of 1





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Signed for and on behalf of SGS-CSTC Chemical Laboratory

> Ella Zhang Sr. Section Head

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SHCHEM 837449



No.: GZSCR051082051/LP

Date: NOV 04, 2005

Page 1 of 2

HANG WON ELECTRONICS CO., LTD.
SHEN ZHEN TIAN WANG TECHNOLOGY DEVELOPMENT CO., LTD
UNIT 6-7, BLOCK B 5/F, CHUNGMEI CENTRE, 15 HING YIP ST., KWUN TONG KIN, H.K.

Report on the submitted sample said to be SOT 系列(包含 SOT-23/323/343/353/363/223/89, SOD-123/323/523 DO-214, LL-34 TO -92/126)

SGS Ref No. : SZ051022755EC\*

Buyer : SONY

Manufacturer/Supplier : SOT 系列(包含 SOT-23/323/343/353/363/223/89, SOD-123/323/523, DO-214, LL-34 TO -92/126)

Sample Receiving Date : OCT 28, 2005

Testing Period : OCT 28, 2005 TO NOV 03, 2005

Test Requested : (1) As specified by client, to determine the Lead, Cadmium, Mercury & Hexavalent Chromium

content in the submitted sample.

(2) Determination of PBBs (polybrominated biphenyls), PBDEs (Polybrominated

diphenylethers) of the submitted sample.

Test method : (1) Lead content - With reference to EPA method 3050B: 1996 / other acid digestion.

Cadmium content - With reference to BS EN1122: 2001 method B / other acid digestion.

Mercury content - With reference to EPA 3052: 1996 / 7473: 1998 / other acid digestion.

Hexavalent Chromium content - With reference to EPA 3060A: 1996 & EPA 7196A: 1992.

Analysis was performed by Inductively Coupled Plasma Atomic Emission Spectrometer

(ICP-AES) / UV-VIS Spectrophotometer.

(2) With reference to EPA 3540C / 3550C. Analysis was performed by GC/MS.

Results : Please refer to next page.

Signed for and on behalf of SGS-CSTC Ltd.

Zhang Li, Amy Sr. Engineer

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GZCM 340660



Note: - N.D. = Not Detected (< 2 ppm)

No.: GZSCR051082051/LP

Date: NOV 04, 2005

Page 2 of 2

Results:

(1)	No.1
Lead Content (Pb)	N.D.
Cadmium Content (Cd)	N.D.
Mercury Content (Hg)	N.D.
Hexavalent Chromium Content [Cr(VI)]	N.D.

- ppm = mg/kg

(2)	No.1
Flame Retardants	
Polybrominated Biphenyls (PBBs)	
Monobromobiphenyl	ND
Dibromobiphenyl	ND
Tribromobiphenyl	ND
Tetrabromobiphenyl	ND
Pentabromobiphenyl	ND
Hexabromobiphenyl	ND
Heptabromobiphenyl	ND
Octabromobiphenyl	ND
Nonabromodiphenyl	ND
Decabromodiphenyl	ND
Polybrominated Diphenylethers (PBDEs)	
Monobromodiphenyl ether	ND
Dibromodiphenyl ether	ND
Tribromodiphenyl ether	ND
Tetrabromodiphenyl ether	ND
Pentabromodiphenyl ether	ND
Hexabromodiphenyl ether	ND
Heptabromodiphenyl ether	ND
Octabromodiphenyl ether	ND
Nonabromodiphenyl ether	ND
Decabromodiphenyl ether	ND

Note: - N.D. = Not Detected (< 5 ppm)

- ppm = mg/kg

Specimen description:

No.1 Golden printed black body w/ silvery metal pin (mixed)

Remark: The sample was analyzed on behalf of the applicant as mixing whole / part sample in one testing. The result in report means average of whole sample. The result may deviate from the real data represented by homogeneous material as requested by RoHS.

\*\*\* End of Report \*\*\*

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GZCM 340661



No. SH6015383/CHEM

Date: Feb. 22, 2006

Page 1 of 2

MINEBEA ELECTRONICS & HI-TECH COMPONENTS (SHANGHAI) LTD NO. 8313. HUQINGPING ROAD, JINZE TOWN, QINGPU DISTRICT, SHANGHAI, 201721 CHINA

Report on the submitted sample said to be RETAINER.

SGS Ref No.

: SHEC0060206053-2

Model

: A3HG2

Material

: NYLON 66RESIN+ GF

Sample Receiving Date: Feb. 17, 2006 Testing Period

: Feb. 17-22, 2008

Test Requested

- :1) To determine the Cadmium Content in the submitted sample. 2) To determine the Lead Content in the submitted sample. 3) To determine the Mercury Content in the submitted sample.
- 4) To determine the Hexavalent Chromium Content on the submitted sample.
- 5) To determine the PBBs(Polybrominated biphenyls) PBBEs(PBDEs) (Polybrominated biphenyl ethers) Content of the submittedisample.

Test Malhod ..

- : 1) With reference to BS EN 1122:2001, Method B, or other acid digestion. Analysis was performed by Inductively Coupled Argon Plasma-Atomic Emission Spectrometry (ICP-AES) or Atomic Absorption Spectrometry.
- 2) With reference to EPA Method 3050B/ 3051/ 3052, or other acid digestion Analysis was performed by Inductively Coupled Argon Plasma-Atomic Emission Spectrometry (ICP-AES) or Atomic Absorption Spectrometry.
- 3) With reference to US EPA 3052 or other acid digestion, Analysis was parformed by Inductively Coupled Argon Plasma - Atomic Emission Spectrometry (ICP-AES) or US EPA7473 Analysis was performed by Hg Analyzer.
- 4) With reference to EPA Melhod 3060A & 7196A. The samples were alkaline digested by using EPA Method \$060A, and then analyzed by using Colorimetric method 7196A.
- 5) With reference to USEPA 8081AJ8270D/3540C/3550C, Analysis was performed by GC-MS.

Test Results

: Please refer to next page

Signed for and on behalf of SGS-CSTC Chemical Laboratory

> Ella Zhang Sr. Section Head

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SHCHEM 478426

1 10/F. 3rd Building, No. 989, Yrchan Road, Shanghai, Ctime 200233 1 (26-21)61402856\* 2720 中国,上海一宫山路889年3号绘10日 邮码:200233

1 (55-21)51402553

1 (86-21)54500314 ( (8E-21) 55500314



No. SH6015383/CHEM

Dale: Feb. 22, 2006

Page 2 of 2

Toet	D	Oth	1 4 1	-

No.	<u>Hem</u>	Unit	DL	A
1	Cadmium (Cd)	mg/kg	2	N.D.
2	Lead (Pb)	mg/kg	2	N.D.
3	Mercury (Hg)	mg/kg	2	N.D.
4	Hexavalent Chromium (Cr VI)	mg/kg	2	N.D.
arrive.	Polybrominated biphenyls (PBBs)			
	Manobromoblphenyl	mg/kg	5	N.D.
	Dibromobiphenyl	mg/kg	5.	N.D.
	Tribromoblphenyl	mg/kg	5	N.D.
20	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	5	N.D.
5	Polybrominated biphenyl ethers ( PBBEs(PBDEs) )			-
	Monobromobiphenyl ether	mg/kg	5	N.D.
	Dibromobiphenyl ether	mg/kg	5	N.D.
	Tribromobiphenyl ether .	mg/kg	5	N.D.
	Tetrabromobiphenyl ether	mg/kg	5	N.D.
	Pentabromobiphenyl ather	mg/kg	5	N.D.
134	Hexabromobiphenyl ether	mg/kg	5	. N.D.
	Heptabromobiphenyl ether	mg/kg	5	N.D.
	Octabromobiphenyl ether	mg/kg	5	N.D.
	Nonabromobiphenyl ether	mg/kg	5.	N.D.
	Decabromobiphenyl ether	mg/kg	- 5	N.D.

Sample Appearance Description(Photo see appendix):

A. Dark brown plastic

Note: 1mg/kg=1ppm=0,0001% DL= Detection Limit

N.D. = Not detected

Not Detected is reported when the reading is less than detection limit value.

\*\*\* End of Report \*\*

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SHICHEM 113452

101F, 3rd Building, No.888, Yishan Road, Shanghai, China 200233 **邮场:200233** 中国·上海·宜山路889号3号控10层

t (85-21;61402866\*2720 1 (63-21/61402553

1 (88-21)54500314 1 (66-21)5:500314



No. SH6015391/CHEM

Date: Feb. 22, 2006

Page 1 of 2

MINEBEA ELECTRONICS & HI-TECH COMPONENTS (SHANGHAI) LTD NO. 8313, HUQINGPING ROAD, JINZE TOWN, QINGPU DISTRICT, SHANGHAI, 201721 CHINA

Report on the submitted sample said to be COVER.

SGS Ref No.

: SHEC0060206053-6

Material

: SECC

Sample Receiving Date: Feb. 17, 2006 Testing Period

: Feb. 17 - 22, 2006

Test Requested

: 1) To determine the Cadmium Content in the submitted sample. 2) To determine the Lead Content in the submitted sample.

3) To determine the Mercury Content in the submitted sample.

4) To determine the Hexavalent Chromium Content on the submitted sample.

Test Method

: 1) With reference to BS EN 1122:2001, Method B; or other acid digestion. Analysis was performed by inductively Coupled Argon Plasma-Atomic Emission Spectrometry (ICP-AES) or Atomic Absorption Spectrometry.

2) With reference to EPA Method 3050B/ 3051/ 3052, or other acid digestion Analysis was performed by Inductively Coupled Argon Plasma-Atomic Emission Spectrometry (ICP-AES) or Atomic Absorption Spectrometry.

3) With reference to US EPA 3052 or other acid digestion, Analysis was performed by Inductively Coupled Argon Plasma - Atomic Emission Spectrometry (ICP-AES) or US EPA7473 Analysis was performed by Hg Analyzer.

4) With reference to EPA Method 3080A & 7195A.

The samples were alkaline digested by using EPA Method 3060A, and then

analyzed by using Colorimetric method 7196A.

Test Results

: Please refer to next page

Signed for and on behalf of SGS-CSTC Chemical Laboratory

Ella Zhang

St. Section Head

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SHCHEM 479193

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1 (86-21)61402553

1 (88-27)54530314 f (61-21)54564312

STRA BAL 183 SDS (Google CO. T " COOL NAU . ES



No. SH6015391/CHEM

Date: Feb. 22, 2006

Page 2 of 2

	esults : Item	045	175.4 175.4	Unit	DF	A
No.	Cadmium (Gd)	7	8	mg/kg	2	מ.א.
2	Lead (Pb)	UE!		mg/kg	2	N.D.
2	Mercury (Hg)			mg/kg	2	N.D.
3	Hexavalent Chromium (Cr VI)	-		mg/kg	2	N.D.

Sample Appearance Description(Photo see appendix):

A. Silvery-grey metal

Note: 1mg/kg=1ppm=0.0001% DL= Detection Limit N.D. = Not detected

Not Detected is reported when the reading is less than detection limit value.

\* As requested by client, EPA 3060A/7198A were used for determination of the sample

\*\*\* End of Report \*\*\*

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10万 3rd Bullding, No.583, Yiehus Posed, Sherighel, Chira 200233 t (86-21)51602866\*2720 中国、上灣、宜山路889号3号模10层 邮箱:200233 t (86-21)81602853

SHCHEM 470184 1 (65-21)54500314 www.cn.sgs.com

f (85-21)54500314 23. JAN. 20072 17: 629 FRE LAS 8512 SAL LAS 8512

\_\_\_\_\_566 'ON-



No. SH6015393/CHEM

Date: Feb. 22, 2006

Page 1 of 2

MINEBEA ELECTRONICS & HI-TECH COMPONENTS (SHANGHAI) LTD NO. 8313, HUQINGPING ROAD, JINZE TOWN, QINGPU DISTRICT, SHANGHAI, 201721 CHINA

Report on the submitted sample said to be STEEL.

SGS Ref No.

: SHEC0060208053-7

Model

: **Q12.5** AND **Q15.8** 

Material

: SAE52100SF AND SUJ 2 MDSF

Sample Receiving Date: Feb. 17, 2006

Testing Period

; Feb. 17 - 22, 2008

Test Requested

: 1) To determine the Cadmium Content in the submitted sample.

2) To determine the Lead Content in the submitted sample.

3) To determine the Mercury Content in the submitted sample.

4) To determine the Hexavalent Chromium Content on the submitted sample.

Test Method

: 1) With reference to BS EN 1122:2001, Method B, or other acid digestion. Analysis was performed by Inductively Coupled Argon Plasma-Atomic Emission Spectrometry (ICP-AES) or Atomic Absorption Spectrometry.

2) With reference to EPA Method 3050B/ 3051/ 3052, or other acid digestion Analysis was performed by Inductively Coupled Argon Plasma-Atomic Emission Spectrometry (ICP-AES) or Atomic Absorption Spectrometry.

3) With reference to US EPA 3052 or other acid digestion, Analysis was performed by Inductively Coupled Argon Plasma - Atomic Emission Spectrometry (ICP-AES) or US EPA7473 Analysis was performed by Hg Analyzer.

4) With reference to EPA Method 3060A & 7196A.

The samples were alkaline digested by using EPA Method 3060A, and then

analyzed by using Colorimetric method 7186A.

Test Results

: Please refer to next page

Signed for and on behalf of SGS-CSTC Chemical Laboratory

Ella Zhang

Sr. Section Head

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1 (88-21)61402669\*2720 1 (86-21)61402553

SHCHEM 470222 1 (88-21)54500314

f (25-21)54500314 23. JAN. 2007" 7:045 ateloos) (SGS E&E LAB RSTS

No. SH8015393/CHEM

Date: Feb. 22, 2006

Page 2 of 2

Test Results

No.	<u>Item</u>	L 1931	Unit	.DL	No.1	No.2
1	Cadmium (Cd)	1: 2	mg/kg	2	N.D.	N.D.
2	Lead (Pb)		mg/kg	2	N.D.	N.D.
3	Mercury (Hg)	4 t	mg/kg	2	N.D.	N.D.
4	Hexavalent Chromium (Cr VI)	·	mg/kg	2	N.D.	N.D.

Sample Appearance Description(Photo see appendix):

No.1 Black-grey metal(Φ12.5) No.2 Black-grey metal(Φ15.8)

Note: 1mg/kg=1ppm=0.0001%

DL= Detection Limit N.D. = Not detected

Not Detected is reported when the reading is less than detection limit value.

\* As requested by client, EPA 3080A/7196A were used for determination of the sample

\*\*\* End of Report \*\*\*

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t (85-21)61402663 12720 1 (56-21)51402553

SHCHEM 476221 f (88-21)54600314 шки.сл.еде.сот f (86-21)54500314

144, 2007 17:045 sestions) Ses E&E LAE RSTS

.966 ON.



No. SH6015381/CHEM

Date: Feb. 23, 2006

MINEBEA ELECTRONICS & HI-TECH COMPONENTS (SHANGHAI) LTD NO. 8313, HUQINGPING ROAD, JINZE TOWN, QINGPU DISTRICT, SHANGHAI, 201721 CHINA

Report on the submitted sample said to be GREASE

SGS Ref No.

: SHEC0060206053-1

Model

: No.1: LY-121; No.2: LY-438; No.3: LY-552

Sample Receiving Date: Feb. 17, 2008

**Testing Period** 

: Feb. 17-23, 2008

Test Requested

- : 1) To determine the Cadmium Content in the submitted sample.
- To determine the Lead Content in the submitted sample. To determine the Mercury Content in the submitted sample.
- 4) To determine the Hexavalent Chromium Content on the submitted sample.
- 5) To determine the PBBs(Polybrominated biphenyls) PBBEs(PBDEs) (Polybrominated biphenyl ethers) Content of the submitted sample.

Test Method

- : 1) With reference to BS EN 1122:2001, Method B, or other acid digestion. Analysis was performed by Inductively Coupled Argon Plasma-Alomic Emission Spectrometry (ICP-AES) or Atomic Absorption Spectrometry.
- 2) With reference to EPA Method 3050B/ 3051/ 3052, or other acid digestion Analysis was performed by Inductively Coupled Argon Plasma-Atomic Emission Spectrometry (ICP-AES) or Atomic Absorption Spectrometry.
- 3) With reference to US EPA 3052 or other acid digestion, Analysis was performed by Inductively Coupled Argon Plasma - Atomic Emission Spectrometry (ICP-AES) or US EPA7473 Analysis was performed by Hg Analyzer.
- 4) With reference to EPA Method 3060A & 7196A. The samples were alkaline digested by using EPA Method 3060A, and then analyzed by using Colorimetric method 7196A.
- 5) With reference to USEPA 8081A/8270D/3540C/3550G, Analysis was performed by GC-MS.

Test Results

: Please refer to next page

Signed for and on behalf of SGS-CSTC Chemical Laboratory

> Ella Zhang Sr. Section Head

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1 (88-21)31482553

SHCHEM 471687 1 (88-21)24500314 f (88-21;54500014



No. SH6015381/CHEM

Date: Feb. 23, 2006

Test	Res	ufts
1000	1 // 0	milla.

No.	<u>llem</u>	Unit	DL.	No.1	No.2	No.3
1	Cadmium (Cd)	mg/kg	2	N.D.	N.D.	N.D.
2	Lead (Pb)	mg/kg	2	N.D.	N.D.	N.D.
3	Mercury (Hg)	mg/kg	2 -	N.D.	N.D.	N.D.
4	Hexavalent Chromium (Cr VI)	mg/kg	2	N.D.	N.D.	N.D.
	Polybrominated biphenyls (PBBs)	***		`		8
42 E	Monobromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.
¥.	Dibromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.
	Tribromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.
	Tetrabromobiphenyl	mg/kg	- 6	N.D.	N.D.	N.D.
	Pentabromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.
	Hexabromoblphenyl	mg/kg	, 5	N.D.s	N.D.	N.D.
	Heptabromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.
	Octabromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.
	Nonabromobiphenyl	mg/kg	6	N.D.	N.D.	N.D.
	Decabromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.
5	Polybrominated biphenyl ethers ( PBBEs(PBDEs) )				040	
	Monobromobiphenyl ether	mg/kg.	5	N.D.	N,D,	N.D.
	Olbramobiphenyl ether	mg/kg	5	, N.D.	N.D.	N.D.
	Tribromobiphenyl ether	, mg/kg	5	N.D.	N.D.	N.D.
	Tetrabromobiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.
	Pentabromobiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.
	Hexabromoblphenyl ether	mg/kg	5	N.D.	N.D.	N.D.
	Heptabromobiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.
	Octabromobiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.
	Nonabromobiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.
	Decabromobiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.

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1 (85-21)81402568 \* 2720 1 (86-21)81402553

SHCHEM 471889 1 (86-21)54500014 1 (86-21)54500314

No. SH6015381/CHEM

Date: Feb. 23, 2006

Page 3 of 3

Sample Appearance Description (Photo see appendix):
No.1 Belge dope
No.2 Belge-yellow dope
No.3 Beige-yellow dope

Note: 1mg/kg=1ppm=0.0001% DL= Detection Limit

N.D. = Not detected

Not Detected is reported when the reading is less than detection limit value.

\*\*\* End of Report \*\*\*

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1 (55-21)6:402668 2720

SHCHEM 471885 f (88-21)545C0314 1 (66-21)51500314



# To:鑫贺/IQC郭姆(知

Test Report

No.: SZTYR050413856/LP

Date: MAY 13, 2006-

Page 1 of 2

TINCHENG PAOMIAN JIAODIAN PRODUCT CO , LTD. HANKIN AREA, QIAOTOU TOEN. DONGGUAR CITY

Remail on the submitted samples said to be used for PE 汽 池 缎

mintry of Destination

EUROPE.

chapte Receiving Date

: APR 30, 2006,

Lesting Period

: MAY 07, 2006; ) MAY 12, 2006.

Lest Requested

To determine Total Lead, Cadmium, Mercury and Hexavalent Chromium

content in the submitted packaging samples.

rest Medical

Analysis was performed by inductively Coupled Plasma Atomic

Emission Spectrometer.

Wasterle

Please refer to next page.

District Charles

The Total Lead, Cadmium, Mercury and Hexavalent Chromium content in the submitted packaging samples comply with the requirement of US CONEG Model Toxics in Packaging Legislation, and European Council

Directive 94/62/EC - Article 11 that effective June 2001.

in the and on behalf of +1000-1460

it carchang. Helenand Manager

the part of several by the Company subject to its General Conditions of Service printed overleaf or attached. Said Conditions are also overleaf or attached. Said Conditions are also overleaf or attached, Said Conditions are also overleaf or attached. Said Conditions are also overleaf or attached, Said Conditions are also overleaf or attached the results shown in this Test Report refer only to the sample(a) tested unless otherwise stated and such pample(s) are retained tive last Report shell not be reproduced except in full, without written approval of the Company.

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3/F-4/F-9/F, Oaster Building, Thorograpy Road, Shanghasila, Shanghan Chica 518049 | 1 (86-755)83114388 | 1 (86-755)83106190 | 83118834 | However, pp. 535-5084

Marcher of SGS General Società Générale de Serveillement

# Tot鑫裝/Iac數學的

SGS

Test Report

No.: SZTYR050413856/LP

Date: MAY 13, 2006,

Page 1 of 2

Pepulta

Lead [Pb]

Cadmium [Cd.]

Mercury [Hg]

Transparent	hisel	IN F	llim.
TELESCOPE STATES	THE 2-	MARY E	1197 3

<2

52

= 2

<.2

100

Total [Pb + Cd + Cn(VI) + Hg] Total Limit

Hexavalent Chromium (Cr(VI))

Note: - < = Less than

- The unit of results is marper kg

Pienre Retardants	Transparent plastic film	Detection Limit (ppm)
Polybrominated Biphenyls (PBBs) 1996	Contract of the Contract of th	aren meren and a second
Menabromobiphenyl	ND .	5
molphenyl	ND.	5
Telerandophenyl	ND	5
7-majoromobiphenyl	ND	5
Panjapromobiohenyl	ND	5
Hexapromobiphenyi	ND	5
Heptahromobiphenyl - 199	TOTAL PROMETING BOTH STREET	5
Octabremobiphenyl	The State of the S	5 mg
Nanabromodiphenyl	ND ND	Service 1775
Tre: abromodipheryl	ND.	5
on or ominated Diphenylother (PBDE+)	The Party of the Control of the Cont	
Himbromodiphenyl ether	NO CONTRACTOR OF THE PARTY OF T	5 (2) B
Janomodiphenyl ether	ND 1	5
Inbremodiphenyl ether	ND: Tolerand	5
! straturansadiphenyl ether	ND ND	5
ent abromodiphenyl ether	ND ND	
whromodiphenyl ether	ND ND	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
tentabromodiphenyl ether - 1	The state of the s	5
hatromodiphenyl ether	NO "	5
lonahromodiphenyl other	ND ND	5
Decapromodiphenyl other	ND	

"Into ND = Not Detected (< 5ppm)

Non-detected is lower than detection limit value.

\*\*\* End of Report.

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332545

2/F4F5F, Costar Busing, Zhongdung Rand, Stumphelin, Shoreten China \$18048 1 (86-765)83154366 1 (86-766)83106190 83113536 (rew china) control

Mamber of SGS Group(Société Générale de Surveillance)



No. 2052491/EC

Date: Feb 15 2008

Page 1 of 3

NEW SINO INDUSTRIAL LTD. NUMBER 30.2 ROAD, SHANGSHA 3 INDUSTIAL PARK, CHANG AN TOWN, DONG GUAN CITY

Report on the submitted sample said to be 矜賴肯.

SGS Job No.

1976699

SGS Ref. No.

SZEC0080204023RS

Buyer

SONY

Supplier / Manufacturer Sample Receiving Date SOURCE CHEMICAL TECH

FEB 11 2006

Testing Period

FEB 11 - 15 2006

Test Requested

- To determine the Cadmium content in the submitted sample. 1)
- To determine the Lead content in the submitted sample.
- To determine the Mercury content in the submitted semple: 3)
- To determine the Hexavalent Chromium content on the submitted sample. 4)
- To determine PBBs (polybrominated biphenyls) and PBDEs (Polybrominated 5) diphenylethers) of the submitted sample.

Test Method

- 1-3) With reference to SGS in-house Method. The sample was digested by acid. Analysis was performed by Inductively Coupled Argon Plasma - Atomic Emission Spectrometry (ICP-AES) or Atomic Absorption Spectrometry.
- With reference to EPA Method 3060A & 7196A. The sample was alkaline digested by using EPA Method 3080A, and then analyzed by using Colorimetric method 7196A (by UV-VIs Spectrophotometer).

With reference to EPA Method 3540C/ 3550C. Analysis was performed by GC/MS or LC/ MS.

Test Results

1-5) Please refer to next page.

Signed for and on behalf of SGS Hong Kong Ltd

Ho Kh Tipg, Family Laboratory Executive

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SZE 134582

2F, Castar Building, Zhongkang Road, Shangmallin, Sheruhen, Ctana 516049 中國、深圳、上梅林中級路區士达大廈2屋

1 (88-755)83162282 t (66-755)8311 ¥358 [ (\$6-755)8318Z782 t (86-755)23114365



No. 2052491/EC

Date: Feb 15 2006

Page 2 of 3

Test Results

Test Item	Silvery Metal	Detection Limit
1) Cadmium (Cd)	ND	2 ppm
2) Lead (Pb)	ND	2 ppm
3) Mercury (Hg)	ND	2 ppm
4) Hexavalent Chromium (Crot)	ND	2 ppm

(Results shown are of the total weight of samples)

Note: ppm = mg/kg

ND = Not Detected

Not detected is reported when the reading is less than detection limit value

5) Flame Retardants	Silvery Metal	Detection Limit
Polybrominated Biphenyls (PBBs)		V /
Monobromobipheny!	NO	5 ppm
Dibromobiphenyl	ND	5 ppm
Tribromobiphenyl	ND -	5 ppm/ /
Tetrabromobiphenyl	/ ND/ /	5 ppm \
Pentabromobiphenyl	ND /	5 ppin \
Hexabromobiphenyl	ND /	fi ppm
Heptabromobiphenyl /	ND \	5 ppm
Octabromoblphenyl	ND.	ti ppm
Nonabromobiphenyl	ND   }	5 pprn
Decabromobiphenyl \	ND ND	5 pprn
Polybrominated Diphenylethers (PBDEs)	4	-
Monobromodiphenyl ether	/ ND	5 ppm
Dibramodiphenyllether	ND	§ ppm
Tribromodiphenyl ether	ND	5 ppm
Tetrabromodiphenyl ethor	ND	5 pom
Pentabromodiphenyl ether	ND	5 ppm
Hexabromodiphenyl ether	ND	5 ppm
Heptabromodiphenyl ether	ND	5 ppm
Octabromodiphenyl ether	ND	5 ppm
Nonabromodiphenyl ether	ND	5 ppm
Decabromodiphenyl ether	ND	5 ppm

Note

ppm = mg/kg

ND = Not Detected

Not detected is reported when the reading is less than detection limit value.

Remark: Test was conducted in SGS Hong Kong Limited

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1 (85-755)63192762 t (85-765)33114318

www.cn.sps.com ses china fistes com



No. 2052491/EC

Date : Feb 15 2006

Page 3 of 3

PHOTO APPENDIX

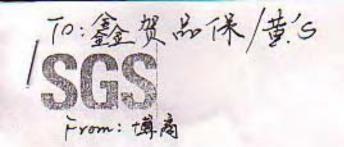


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SZE 134584

27. Gaster Buttong. Zhongsang Road Strangmeilin, Shenzawn, China 518048 中國。深圳、上海林中康路與士通大廈2階

1 (56-755(83114356



No.: GZSCR0512106804/LP

Date: JAN 05, 2006

Page 1 of 4

BEST RESULT MAG & ELEC FTY

XIN-JIE INDUSTRIAL AREA. YI-HE TOWN, BO-LUO COUNTY, HUIZHOU CITY, GUANG DONG PROVINCE, CHINA

Report on the submitted sample said to be RUBBER MAGNETS

SGS Ref No.

SZ051230285RS-2.2

Buyer

SONY

Supplier

: BGRIMM

Sample Receiving Date

: DEC 27, 2005

Testing Period

DEC 27, 2005 TO JAN 05, 2006

Test Requested

: (1) As specified by client, to determine the Lead, Cadmium & Mercury content in the submitted sample.

(2) As specified by client, to determine the Hexavalent Chromium Content in the submitted

(3) Determination of PBBs (Polybrominated Biptienyls), PBDEs (Polybrominated

Diphenylethers) of the submitted sample.

**Lest Method** 

: (1) Cadmium content : With reference to BS EN 1122:2001 Method B see flowchart (1) Lead content: Ashing after wet decomposition see flowchart (2) Mercury content - With reference to EPA 3052: 1996 / 7473; 1998 / other acid digestion. Analysis was performed by Atomic Absorption Spectrometer / Inductively Coupled Plasma Atomic Emission Spectrometer (ICP-AES).

(2) With reference to the Committee Draft of IEC 62321, Ed.1 (Sec. 10 - Alkaline Digestion

Procedure).

(3) With reference to EPA 3540C / 3550C, Analysis was performed by GC/MS.

Results

: Please refer to next page.

Signed for and on behalf of SGS-CSTC Ltd.

Zlang Li, Amy Sr Engineer

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No: GZSCR0512106804/LP

Date: JAN 05, 2006

Page 2 of 4

Results:

 (1)
 Dk-grey sheet

 Lead Content (Pb)(ppm)
 14

 Cadmium Content (Cd)
 N.D.

 Mercury Content (Hg)
 N.D.

Note: - N.D. = Not Detected (< 2 ppm)

ppm = mg/kg

(2) Dk-grey sheet

Hexavalent Chromium [Cr(VI)](ppm)

Note: - ppm = mg/kg

(3)	Dk-grey sheet
Flame Retardants	
Polybrominated Biphenyls (PBBs)	
Monobromobiphenyl	ND
Dibromobiphenyl	ND
Tribromobiphenyl	ND
Tetrabromobiphenyl	ND
Pentabromobiphenyl	ND
Hexabromobiphenyl	ND
Heptabromobiphenyl	ND
Octabromobiphenyl	ND
Nonabromodiphenyl	ND
Decabromodiphenyl	ND
Polybrominated Diphenylethers (PBDEs)	
Monobromodiphenyl ether	ND
Dibromodiphenyl ether	ND
Tribromodiphenyl ether	ND
Tetrabromodiphenyl ether	ND
Pentabromodiphenyl ether	ND
Hexabromodiphenyl ether	ND
Heptabromodiphenyl ether	ND
Octabromodiphenyl ether	ND
Nonabromodiphenyl ether	ND ND
Decabromodiphenyl ether	ND

Note: - N.D. = Not Detected (< 5 ppm)

- ppm = mg/kg

\*\*\* End of Report \*\*\*

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No - GZSCR0512106804/LP

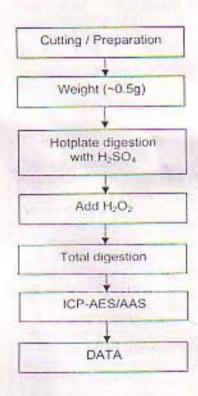
Date: JAN 05, 2006

Page 3 of 4

## **ATTACHMENTS**

(1)

Flow chart of digestion (Cadmium content):



The samples were dissolved totally by pre-conditioning method according to above flow chart.

Operator

: Sams Deng

Leader

: Joe Li

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TREASE-PURPORT SCENTECH Part Georgetes Economic & Schooling Development Desirt, Georgetes, Charles \$1665. 1 486-204621555555 | 1 (86-20462075113 altaborator 中山·广州·经济技术开发区科学城科联路199号 邮编:510663 t |86-20/62/5555 t |86-20/62/75113 e squithenags.go.com

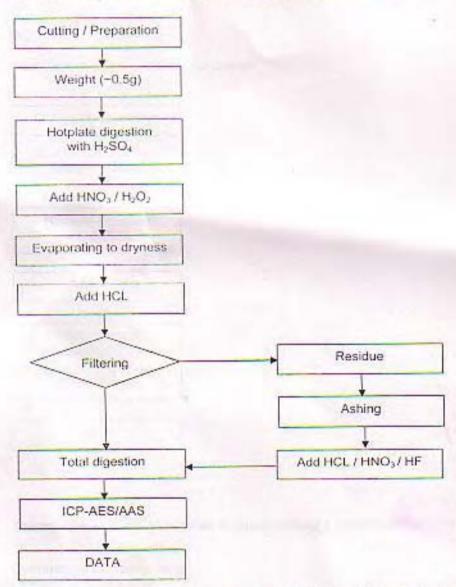


No. GZSCR05121068047LP

Date: JAN 05, 2006

Page 4 of 4

Flow chart of digestion (wet decomposition and ashing) (Lead content)



The samples were dissolved totally by pre-conditioning method according to above flow chart

Operator

Vincent Li

Leader

Adams Yu

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# 高碳包砂

Test Report

No.: GZ0605079679/CHEM

Date: JUN 05, 2008

HOLFU PAPER PRODUCTS LTD SAN TUN HOUSE, DONGGUAN CITY, S

Report on the submitted packaging samples said to be CARTON

SGS Raf No.

GZC60516432EC-3.1

item / Model No.

A=A

Sample Receiving Date

MAY 31, 2006

Testing Period

MAY 31, 2006 TO JUN 02, 2006

Test Receested

- 1) To determine Lead, Cadmium, Mercury and Hexavalent Chromium Content in the submitted sample.
- As specified by client, to test soluble Lead, soluble Antimony, soluble Asserte Soluble Barium, soluble Cadmium, soluble Chromium, soluble Mercury soluble Salanium content in the submitted sample.

Tes! Method

- 1) Lead confent Wah reference to EPA method 3050B: 1998 / other acid digestion Caumium content - With reference to BS EN1122: 2001 method B / other acid digestion. Marcury content - With reference to EPA 3052; 1996 / 7473; 1998 / other acid digestion Haxava ent Chromium content - With reference to EPA 3060A: 1996 & EPA 7196A: 1992. Analysis was performed by Atomic Absorption Spectromater (Industively Coupled Plasma Atomic Emission Spectrometer (ICP-AES) / Direct Mercury analyzer / UV-VIS
- With reference to EN71 part 3 : 1994 (including emendment A1:2000).

Analysis was performed by Atomic Absorption Scientification inductively. Coupled

Plasma Alomo Emission Spectrometer (ICP-AES).

Result

: Please rafer to next page.

Conclusion

1) The Lead, Cadmius: Mercury and Hexavelent Chronium Contention the submitted sample complies with the requirement of European Council Directive 04/62/EO - Article 11 that effective June 2001.

Signed for and on behalf of SGS-CSTC LIG.

Zhang Li, Amy Sr. Engineer

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Complex Of 1980 (1987) (1987) (1987) (1987) (1987) 1 pt 1921-1933 (55-2020) 905, 4 mi dan Buye con Mamber of the SGS Group (SC

Date: JUN 05, 2006

Results :

1) 94/62/EC

	Brown corrugated paper boato
A STATE OF THE STA	37
Lead [PD]	< 2
Cadmium [Cd ]	< 2
Mercury [Hg]	< 2
Hexavalent Chromium (Cr(VI))	*****
1 0 400 1 16-1	< 43
Total (Pb + Cd + Cr(VI) + Hg)	100
Total Limit	

Note - < a Lass than

. The unit of results is mig per kg

# 2) EN71 Part 3: 1994 (including amendment A1:2000) - Migration of Centair Elements

Elament (Pb.) Scluble Lead (Pb.) Scluble Antimony (Sb.) Scluble Arsanio (As.) Scluble Barum (Ba.)	Brown cornigated paper board 14 < 2 < 2 < 2	Lim) 30 mg/kg 50 mg/kg 25 mg/kg 1000 mg/kg 75 mg/kg
Soluble Cadmium (Cd.) Soluble Chromium (Ct.) Soluble Mercury (ng.) Soluble Selprium (Sc.)	< 5 < 5 < 2 < 3	. 80 mg/kg - 80 mg/kg - 80 mg/kg - 800 mg/kg

- < # Less than

End of Report ""

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Page 1 of 2 No. GZ9605079860/CHEM. Date: JUN 65 2006

HOLFU PAPER PRODUCTS LTD SAN TUN HOUSIE, DONGGUAN CITY.S

Report - the submitted packaging samples said to be CARTON

SGS Ref No.

GZ060516432EC-3 2

olf lebort / maff

**B38** 

Tample Receiving Date

MAY 31, 2006

Testing Period

MAY 31, 2006 TO JUN 02, 2006

Test Requested

- 1) To determine Lead, Cadmium, Mercury and Hexavalant Coromium Contact to the submitted sample.
- 2) As specified by client, to test soluble Load, soluble Adimony, soluble Arcenic. Soluble Barium, soluble Cadmium, soluble Chromium, entitles Mercury, soluble Selenium content in the submitted serrold.

Test Mathod

- ; 1) Load content With reference to EPA method 3/5000 1696 / other acid digestion. Gadmium content - With reference to BS SN1122, 2001 method 5 / other solo digestion Mercury content - With reference to EPA 3052: 1998 / 7473: 1998 / other acid a gestion Hexavalent Chromium content - With reference to EPA 2080A; 1995 & EPA 1196A : 1990 Analysis was performed by Atomic Absorption Social coneter "Inductively Coupled Plasmo Atomic Emission Spectrometer (ICP-AES), Decit Microry analyzer (IDV-Vis
  - 2) With reference to EN71 part 3 : 1991 (including an ardinant A1 2000) Analysis was performed by Atomic Accordion Sprint one en i Industrially Couples Plasma'Atomic Emission Specarameter (ICP-ASS).

Rogari

Please refer to next page.

Canalusion

1) The Total Cadmium, Mesoury and Hexavarent Chromitan Content in the submitted sample complies with the requirement of European Council Directive 94/62/EG - Article 11 that effective June 2001.

Signed for and on behalf of SGS CSTC Ltd.

Zhat Li, Amy

secund by the Company subject to the Concept Conditions of Service printed evertical or attached. Said Conditions are cit-There is the content of the first the first of the relation of the content of the



Date, JUN 05, 2006 Page 1 of 1 No.: GZ6696079680/CHEM

Results :

11 94/62/EQ

	Brown coundated baset now a
Market W. Charles	25
Lead [Pt]	< 2
Cadmium (Cd )	< 2
Margary (Hrt.)	< 2
Hexavalent Coromium (Crovi)	****
-	4 27
ral [Pc - Cd + C1V*) - HSI	100
Total Limit	

Note: • \* # Less than

. The unit of results is mg per kg

# 2) EN71 Part 3: 1994 (including amendment A1.2000) - Migration of Certain Ejements

Solutio Antimony (	8:0199 corrugated page: 303rd 85 )	<u>Limil</u> 90 mg/kg 68 mg/kg 25 ma/kg 1000 mg/kg
Soluble Cadmium ( Soluble Chronium ) Soluble Marcury	Ba) C1: 54 C1: 45 K2: 45 Se)	75 mg/kg 62 mg/kg 60 mg/kg 500 mg/kg

- c = Less than

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Date: JUN 05, 2006 No.: GZ0605079681/CHEM

OLFU PAPER PRODUCTS LTD AN TUN HOUJIE, DONGGUAN CITY,S

isport on the submitted packaging samples said to be CARTON

GS ReF No.

GZ050516432EC-3.3

tem / Model No.

K=K

Sample Receiving Date

MAY 31, 2006

lesting Period

MAY 31, 2006 TO JUN 02, 2006

Requested

- ; 1] To determine Lead, Coornium, Mercury and Hexavalent Chromium Content in the submitted sample
  - 2) As specified by client, to test soluble Lead, soluble Antimony, soluble Arsenic. Soluble Barium, soluble Cadmium, soluble Chromium, soluble Mercury, scluble Selenium content in the submitted sample.

inst Wethou

- 1) Lead content With reference to EPA method 3050B; 1996 / other acid digestion. Cadmium content - With reference to BS EN1122; 2001 method B / other acid digestion Mercury content - With reference to EPA 3052: 1996 / 7473: 1998 / other acid digestion. Hexavalent Chromium content - With reference to EPA 3060A : 1995 & EPA 7196A : 1992. Analysis was performed by Atomic Absorption Spectrometer / Inductivaly Coupled Picsma Atomic Emission Spectrometer (ICP-AES) / Direct Mercury analyzer / UV-VIS Spectrophotometer.
- 2) With reference to EN71 part 3 : 1994 (including amendment A1:2000) Analysis was performed by Atomic Absorption Spectrometer / Inducts at y Coupled Plasma Atomic Emission Scectromatar (ICP-ASS)

Result

Plaase refer to next page.

JS:00

() The Lead, Cadmium, Mercury and Haxava ant Chromium Content in the submitted sample complies with the requirement of European Council Directive 94/62/EC - Article 11 that effective June 2001.

Signed for and on banalf of SGS-CSTC Ltd.

Zilarig Ll, Arny Sr. Engineer

is the state of the Company subject to the General Conditions of Service printed events of attached. Sent Conditions are also if Upon 16 feet are acceptable at with sea conditional policies. I upon 16 feet are acceptable at with sea conditional policies that the Conditional policies that the Conditional policies that the Conditional Policies are relatived that the Conditional Policies are relatived. The Conditional Policies are relatived that the Conditional Policies are relatived. the second the work has not be reproduced except in full, without within approval of the Company.

No.: GZ0605079681/CHEM

Date: JUN 05, 2006

Page 2 of 2

eaults :

94/62/EC

	Brown corrugated paper board w/ red printing		
Lead (Pb) Cadmium [Cd ] Marcury [Hg) Hexavalent Chromium [Cr(VI)]	19 < 2 < 2 < 2 < 2		
Total Limit	< 25 100	*	

Note: + < = Less than

- The unit of results is mg per kg

## 1994 (including amendment A1:2000) • Migration of Certain Elements

1874	Brown cornugated page: board w/ red crinting	<u>Limi</u> t
Element Soluble Lead (Pb) Soluble Antimony (So) Soluble Arsenic (As) Soluble Barium (Ba) Soluble Codmium (Cd) Soluble Chronium (Cr) Soluble Marcury (Hg) Soluble Solenium (Se)	< 5   < 2   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5   < 5	90 mg/kg 60 mg/kg 25 mg/kg 1900 mg/kg 75 mg/kg .60 mg/kg 500 mg/kg

End of Report \*\*

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# TO:義変 IRC/多ら

Test Report

No. SH6023234-1/CHEM

Date: Mar. 20, 2006

Page 1 of 2

NANJING XINXING ELECTRONICAL STUFF LIMITED COMPANY NO.18 YINGJIANG ROAD, POKOU, NANJING JIANGSU, CHINA

THIS REPORT IS TO SUPERSEDE TEST REPORT NO. SH6023234/CHEM, DATE: Mar.10, 2006.

Report on the submitted sample said to be TINNED COPPER CLAD WIRE FOR ELECTRONIC COMPONENTS.

SGS Ref No.

: SHEC0060309194-1

Model

: 00.2×0.2~1.2×1.2mm

Main substance

Fe, Cu, Sn

Supplier

: NANJING XINXING ELECTRICAL STUFF LIMITED COMPANY

Sample Receiving Date: Mar. 07, 2006

**Testing Period** 

: Mar. 07 - 10, 2006

Test Requested

: 1) To determine the Cadmium Content in the submitted sample.

To determine the Lead Content in the submitted sample.

To determine the Mercury Content in the submitted sample.

4) To determine the Hexavalent Chromium Content on the submitted sample.

5) To determine the PBBs(Polybrominated biphenyls) PBBEs(PBDEs) (Polybrominated biphenyl ethers) Content of the submitted sample

Test method

: 1) With reference to BS EN 1122:2001, Method B or other acid digestion Analysis was performed by Inductively Coupled Argon Plasma - Atomic Emission Spectrometry (ICP-AES) or Atomic Absorption Spectrometry.

2) With reference to EPA Method 3050By 3051/ 3052, or other acid digestion Analysis was performed by inductively Coupled Argon Plasma-Atomic Emission

Spectrometry (ICP-AES) or Atomic Absorption Spectrometry.

3) With reference to US EPA 3052 or other acid digestion, Analysis was performed by Inductively Coopled Argon Plasma – Atomic Emission Spectrometry (ICP-AES) or US EPA7473 Analysis was performed by Hg Analyzer.

With reference to ISO-3613: 2000(e).

Analysis was performed by UV-VIS Spectrometric method.

5) With reference to USEPA 8081A/8270D/3540C/3550C, Analysis was performed by GC-MS

Test Results

: Please refer to next page

Signed for and on behalf of SGS-CSTC Chemical Laboratory

Ella Zhang

Sameta Bas Con La Salar Col Laboration

Sr. Section Head



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No. 8H6023234-1/CHEM

Date: Mar. 20, 2006

Page 2 of 2

No.	Item	Unit	DL	A
1	Cadmium (Cd)	mg/kg	2	N.D.
2	Lead (Pb)	mg/kg	2	N.D.
3	Mercury (Hg)	mg/kg	2	N.D.
	The state of the s	µg/cm²	0.02	N.D.
4	Hexavalent Chromium (Cr VI)	mg/kg*	2	N.D.
	Polybrominated biphenyls (PBBs)		T	
	Monobromobiphenyl	mg/kg	5	N.D.
	Dibromoblphenyl	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	ND.
	Nonabromobiphenyl	mg/kg_	5	N.D.
_	Decabromobiphenyl	mg/kg	) \$	N.D.
5	Polybrominated biphenyl ethers ( PBBEs(PBDEs) )	\	/	
	Monobromoblphenyl ether	mg/kg	5	N.D.
	Dibromobiphenyl ether	mg/kg	5	N.D.
	Tribromobiphenyl ether	mg/kg	5	N.D.
	Tetrabromopiphonyl-giffer	mg/kg	5	N.D.
	Pentebromobiphenyl ether	mg/kg	5	N.D.
	Hexabromobiphenyl ether	mg/kg	5	N.D.
	Heptabromobiphenyl ether	mg/kg	5 4	N.D.
	Octebromobiphenyl-ather	rng/kg	5	N.D.
	Nonabromobiphenyl ether	mg/kg	5	N.D.
	Decabromobiphenyl ether	mg/kg	5	N.D.

Sample Appearance Description(Photo see appendix):

A. Silvery metal wire

Note: 1mg/kg=1ppm=0.0001%

DL= Detection Limit

N.D. # Not detected

13

Not Detected is reported when the reading is less than detection limit value.

\*Result shown is of the total weight of sample, and only for reference.

\*\*\* End of Report \*\*\*



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SHCHEM 562869

10rF, 3rd Building, No 859, Yishen Road, Shenghei, China 200233

1 (86-21)61402566 \* 2720 1 (88-21)61402663

1 (86-21)54500314 1 (86-21)54500314

www.cn.tgs.cum sigt dien Bigs com



No.: GZ0605089089/CHEM

Date: SEP 01,2006

Page 1of 2

SHEN ZHEN YONG AN FLUX CO.,LTD.

5<sup>TH</sup> BLOCK, JIATIANGANGHUANGTIAN INDUSTRIAL DISTRICT, XIXIANG TOWN, BAOAN AREA, SHENZHEN

Report on the submitted sample said to be LEAD FREE SOLDER PASTE Sn96.5Ag3.0Cu0.5

SGS Ref No. : SZ060526342RS-1.1

Model No. : LF-RMAA8F2 Sample Receiving Date : AUG 28, 2006

Testing Period : AUG 28, 2006 TO SEP 01, 2006

Test Requested

- (1) As specified by client, to determine the Lead, Cadmium, Mercury & Hexavalent Chromium content in the submitted sample.
  - (2) Determination of PBBs (Polybrominated Biphenyls), PBDEs (Polybrominated Diphenylethers) of the submitted sample.

**Test Method** 

- : (1) Lead content With reference to EPA method 3050B: 1996 / other acid digestion. Cadmium content - With reference to BS EN1122: 2001 method B / other acid digestion. Mercury content - With reference to EPA 3052: 1996 / other acid digestion. Hexavalent Chromium content - With reference to IEC111/24/CD\_9.7.2& EPA 7196A: 1992. Analysis was performed by Atomic Absorption Spectrometer / Inductively Coupled Plasma Atomic Emission Spectrometer (ICP-AES) / UV-VIS Spectrophotometer.
  - (2) With reference to EPA 3540C. Analysis was performed by GC/MS.

Results :Please refer to the next page.

Signed for and on behalf of SGS-CSTC Ltd.

Zhang Li, Amy Sr. Engineer

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GZCM 586081

SQS-NIQ Standards Technical Annual Co.Ltd.



No.: GZ0605089089/CHEM

Date: SEP 01, 2006

Page 2 of 2

Results:

Seltem Seltem	Unit	MDL	Gray paste
Lead Content (Pb)	ppm	C2	G 50 296 G 5V
Cadmium Content (Cd)	ppm	2.0	G 50 4 5 65
Mercury Content (Hg)	c ppm	2	S ND.
Hexavalent Chromium (Cr VI)	ppm	5 2	S N.D. G

Note: - N.D. = Not Detected (<MDL) -MDL= Method Detection Limit

-ppm = mg/kg

	077 4 5 650 7
(2 ch - 2 ch ch	Gray paste
Flame Retardants	Co. Service Commence of the Co
Polybrominated Biphenyls (PBBS)	" (2 C) , " , S c()"
Monobromobiphenyl	S S C N.D. S
Dibromobiphenyl	-G -G - S N.D C - C - C - C - C - C - C - C - C -
Tribromobiphenyl	N.D.
Tetrabromobiphenyl	65 65 N.D. 6 65 5
Pentabromobiphenyl	N.D.
Hexabromobiphenyl	N.D.
Heptabromobiphenyl	N.D.
Octabromobiphenyl	N.D.
Nonebromobiphenyl	N.D.
Decabromobitphenyl	N.D.
Polybrominated Diphenylethers (PBDEs)	2 6 40 3 6 63
Monobromodiphenyl ether	N.D.
Dibromodiphenyl ether	N.D.
Tribromodiphenyl ether	N.D.
Tetrabromodiphenyl ether	N.D.
Pentabromodiphenyl ether	N.D.
Hexabromodiphenyl ether	N.D.
Heptabromodiphenyl ether	N.D.
Octebromodiphenyl ether	N.D.
Nonebromodiphenyl ether	N.D.
Decabromodiphenyl ether	I N.U.

Note: -N.D. = Not Detected (< 5 ppm)

End of Report

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No.: GZ0602012510/CHEM

Date FEB 16, 2006

SHEN ZHEN YONG AN FLUX CO., LTD \_ 44

BPOCK, JIATIANGANGHUANGTIAN INDUSTRIAL DISTRICT, XIXIANGTOWN, BAOAN AREA, SHENZH

Report on the submitted sample said to be GREE NO CLEAN FLUX F-900B

SGS Ref.No.

SZ060204092RC-9.6

Model No. C.

FLUX

Sample Receiving Date

:-FEB 10, 2006

Testing Period

: FEB.10, 2006-TO FEB.16, 2006

Test Requested

As specified by client, to determine the Lead, Cadmitim, Mercury & Hexavalent Chromium

content in the submitted sample.

(2): Getermination of PBBs (Polyprominated Bipnanyls), PBDEs (Polyprominated

Diphenylethers) of the submitted sample.

:(1)/Lead content -: With reference to EBA method 3050821996 / other acid digestion: Cadmium content - With reference to BS EN1122 2001 method B120ther and digestion Mercury content - With reference to EPA 3052, 1996 Lother acid destion Hexagaient Chromium content - With reference to EPA 3050A: 1996 & EPA 7196A Analysis was performed by Alomic Absorption Spectrometer Inductively Coupled Plasma Atomic Emission Spectrometer (ICP-AES) / UV-VIS Spectrophotometer (2) With reference to EPA-3540C / 3550C. Analysis was performed by GCM'S.

Please refer to next page.

Signed for and on behalf of SGS-CSTC Ltd.

Zhang Li, Amy Sr: Engineer

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No.: GZ0802012510/CHEM

item.	Unit	MDL	Lt-yellow liquid -
Lead Content (Pb)	ppm	2 2	+ ND
Cadmium Content (Cd)	ppm -	2	N.D.
Mercury Content (Hg)	ppm	= 2	N.D.
Hexavalent Chromium (Cr VI)	ppm	2	NO -

Note: N.D. - Not Detected (< MDL) - MDL= Method Detection Limit

	200	
C.		Lt-yellow liquid
	Flame Retardants	100
	Polybrominated Biphenyls (PBBs)	G-
7	Monopromoblehenyl	N.D.
1	Dibromobiphenyl	N.D.
-	Tribromopiphenyl	
7	Tetrabromobiphenyl	N.D.
1	Pentabromaniphenyl	N.D.
4	Hexabromobiphenyl	S ND
1	Heptabromobiphenyl	N.D.
1	Octabromobiphenyl::	N.D.
S.	Nonabromod phenyl	N.D.
	Decabromodiphenyl.	N.D.
L	Polybrominated Diphenylethers (PBDEs)	N.D.
T	Monobromodiphenyl ether	
T	Dibramodiphenyl ether	_ND
1	Tribromodiphenyl ether	- N.D.
1	Tetrabromodiphenyl ether	- ND
П	Pentabromodiphenyl ether	N.D.
	nexabromodiphenyl ether	N.D.
		N.D.
1	eptabromodiphenyl ether	N.D.
H	Octabromodiphenyl ether	N.D.
H	lonabromodiphenyl ether	N.D.
L	Decabromodiphenyl ether	N.D.
124		Description of the second seco

Note : - N.D. = Not Detected (< 5 ppm) - ppm = mg/kg

\*\*\* End of Report \*\*\*

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07/08 2006 10:18 FAX 075529903085



Test Report

No.: SZTYR060618791/LP

Date: JUN 14, 2006

Page 1 of 1

DONG GONG METAL FITTINGS (SHEN ZHEN) CO., LTD. BEI BIAN BEI INDUSTRIAL AREA, SONG GANG VILLAGE, SONG GANG TOWN, BAO AN DISTRICT, SHENZHEN, CHINA

Report on the submitted samples said to be 轴心

SGS Ref No.

: 060626819RS-3.2

Item No.

: DG-2006 (DT-SUS420F)

Sample Receiving Date

: JUN 06, 2006

Testing Period

: JUN 06, 2006 TO JUN 14, 2006

Test Requested

- : 1) Determination of Lead content in the submitted samples.
  - Determination of Cadmium content in the submitted samples. Determination of Mercury content in the submitted samples.
  - Determination of Hexavalent Chromium content in the submitted samples.

Test Method

- : 1) With reference to EPA 3050B:1996 / Other sold digestion. Analysis was performed by Atomic Absorption Spectrometer (AAS).
- 2) With reference to EN 1122:2001 / Other acid digestion. Analysis was performed by Atomic Absorption Spectrometer (AAS).
- With reference to EPA Method 3052: 1996 / other acid digestion. Analysis was performed by Inductively Coupled Plasma Atomic Emission Spectrometer (ICP-AES).
- Requested by applicant, with reference to IEC 111-9.7.2.

Test Results

Element	Silvery color metal shaft	Detection Limit
1) Lead (Pb)	48	2 ppm
2) Cadmium (Cd)	N.D.	2 ppm
3) Mercury (Hg)	N.D.	2 ppm
4) Hexavalent Chromium (Cr 5+)	- Ñegative	0.02mg/kg with 50cm <sup>2</sup>

Note |

- N.D. = Not detected (lower than detection limit)
- ppm = ma/ka

4 -- 1

Negative means the concentration of Hexavalent Chromium extracted from 50cm2 sample is less than the detection limit.

When using method of IEC 111-9.7.2, the detection limit of Cr(VI) in solution is 0.02 mg/kg with 50cm2 sample surface area used.

Photo Appendix is included

"" End of Report ""

Signed for and on behalf of SGS-CSTC Ltd.

Lui Tat Wah, Wallace Sr. Lab Manager

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No.: GZ0808121421/CHEM

Date: AUG 14, 2006

Page 1 of 4

DONGGUAN JIAXIN MOULD & PLASTIC CO., LTD GEKENG YANGJIANG INDUSTRIAL ZONE, HENGLI TOWN, DONGGUAN CITY

Report on the submitted sample said to be 基架射叶绝缘片 Client Reference: 4080、4830

SGS Ref No.

: GZ10036511EC-2.1

Buyer

: SONY

Sample Receiving Date

: AUG 07, 2006

Testing Period

: AUG 07, 2008 TO AUG 14, 2006

Test Requested

: (1) As specified by client, to determine the Lead, Cadmium, Mercury &

Hexavalent Chromlum content in the submitted sample.

(2) Determination of PBBs (Polybrominated Biphenyls), PBDEs (Polybrominated

Diphenylethers) of the submitted sample.

Test method

: (1) Cadmium content : With reference to BS EN 1122;2001 Method B see flowchart (1).

Lead content: Ashing after wet decomposition see flowchart (2).

Mercury content - With reference to EPA 3052: 1996 & EPA 7473: 1998.

Hexavalent Chromium content – with reference to EPA 3060A: 1996 & EPA 7196A: 1992 . Analysis was performed by Atomic Absorption Spectrometer & Inductively Coupled Plasma Atomic Emission Spectrometer (ICP-AES) & Direct Mercury analyzer & UV-VIS

Spectrophotometer.

(2) With reference to EPA 3540C & EPA 3550C. Analysis was performed by GC-MS.

Results

: Please refer to next page.

Conclusion

: When tested as specified, the results shown on the report do not exceed the limit in

commission decision of 18 Aug 2005 amending Directive 2002/95/EC (RoHS) notified under

document 2005/618/EC.

Signed for and on behalf of SGS-CSTC Ltd.

Zhang Ll, Amy Sr. Engineer

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GZCM 682501



No.: GZ0608121421/CHEM

Date: AUG 14, 2006

Page 2 of 4

Results:

(1)

Item	Unit	MDL	Black plastic	Limit
Lead Content (Pb)	mg/kg	2	10	< 1000mg/kg
Cadmlum Content (Cd)	mg/kg	2	N.D.	< 100mg/kg
Mercury Content (Hg)	mg/kg	2	N.D.	< 1000mg/kg
Hexavalent Chromium Content (Cr VI)	mg/kg	2	N.D.	< 1000mg/kg

Note: - N.D. = Not Detected (< MDL)

- MDL= Method Detection Limit

- mg/kg = ppm

(2)

Item	Unit	MDL	Black plastic	Limit
Flame Retardants		at a track	THE RESIDENCE AND THE PERSON	THE SHARE TO A
Polybrominated Biphenyls (PBBs)	<b>野</b> 韓原語	學是有主義 法		< 1000mg/kg
Manobramobiphenyl	mg/kg	5	N.D.	
Dibromobiphenyl	mg/kg	5	N.D.	Marie -
Tribromobiphenyl	mg/kg	5	N.D.	
Tetrabromobiphenyl	mg/kg	5	N.D.	
Pentabromobiphenyl	mg/kg	5	N.D.	
Hexabromobiphenyl	mg/kg	5	N.D.	100
Heptabromobiphenyl	mg/kg	5	N.D.	
Octabromobiphenyl	mg/kg	5	N.D.	E STEEL
Nonabromodiphenyl	mg/kg	5	N.D.	
Decabromodiphenyl	mg/kg	5	N.D.	
Polybrominated Diphenylethers (PBDEs)(Mon-Non)			AND THE STATE OF	< 1000mg/kg
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.	25.
Heptabromodiphenyl ether	mg/kg	5	N.D.	
Octabromodiphenyl ether	mg/kg	5	N.D.	70.2
Nonabromodiphenyl ether	mg/kg	5	N.D.	
Decabromodiphenyl ether <sup>△</sup>	mg/kg	5	N.D.	

Note: - N.D. = Not Detected (< MDL)

- MDL= Method Detection Limit

- mg/kg = ppm

## \*\*\* End of Report \*\*\*

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47CM 682663

<sup>-</sup> A: Decabromodiphenyl ether (DecaBDE) In polymeric applications is exempted by Commission Decision of 13 Oct 2005 amending Directive 2002/95/EC notified under 2005/717/EC.



No.: GZ0608121421/CHEM

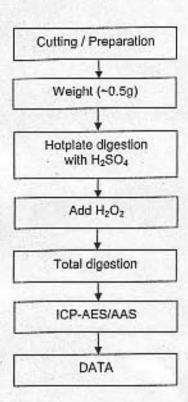
Date: AUG 14, 2006

Page 3 of 4

### ATTACHMENTS

(1)

Flow chart of digestion (Cadmium content):



The samples were dissolved totally by pre-conditioning method according to above flow chart.

Operator

; David Shen

Leader

: Julie Zhong

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t (66 20)62155655 f (66 20)62075125 e sgs.china@sgs.com

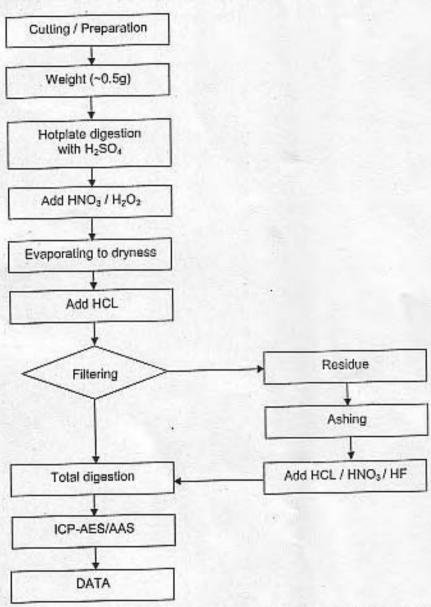


No.: GZ0608121421/CHEM

Date: AUG 14, 2006

Page 4 of 4

Flow chart of digestion (wet decomposition and ashing) (Lead content) :



The samples were dissolved totally by pre-conditioning method according to above flow chart.

Operator

: Vincent Li

Leader

: Adams Yu

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www.cn.sqs.com



No.: GZSCR051077213/LP

Date: OCT 21, 2005

Page 1 of 2

DONG GUAN YUKKWONG METAL OXIDIZATION PRODUCTS CO., LTD. SHIYONG DISTRICT, HENLI, DONGGUAN, GUANGDONG, CHINA

Report on the submitted sample said to be FR-4 PB8 AC PCB

SGS Ref No.

: GZ051013831EC

Buyer

: AHOKU

Supplier

: YUKKWONG

Sample Receiving Date

: OCT 14, 2005

**Testing Period** 

: OCT 14, 2005 TO OCT 21, 2005

**Test Requested** 

- : (1) As specified by client, to determine the Lead, Cadmium, Mercury & Hexavalent Chromium content in the submitted sample.
- (2) Determination of PBBs (polybrominated biphenyls), PBDEs (Polybrominated diphenylethers) of the submitted sample.

**Test Method** 

- : (1) Lead content With reference to EPA method 3050B: 1996 / other acid digestion.

  Cadmium content With reference to BS EN1122: 2001 method B / other acid digestion.

  Mercury content With reference to EPA 3052: 1996 / 7473: 1998 / other acid digestion.

  Hexavalent Chromium content With reference to EPA 3060A: 1996 & EPA 7196A: 1992.

  Analysis was performed by Inductively Coupled Plasma Atomic Emission Spectrometer (ICP-AES) / UV-VIS Spectrophotometer.
- (2) With reference to EPA 3540C / 3550C. Analysis was performed by GC/MS.

Results

: Please refer to next page.

Signed for and on behalf of SGS-CSTC Ltd.

Zhang Li, Amy Sr. Engineer

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GZCM 336104

# SGS

**Test Report** 

No.: GZSCR051077213/LP

Date: OCT 21, 2005

Page 2 of 2

Results:

(1)	"PCB" (mixed)
Lead content (Pb)(ppm)	22
Cadmium Content (Cd)	Ņ.D.
Mercury Content (Hg)	N.D.
Hexavalent Chromium Content [Cr(VI)]	N.D.

Note: - N.D. = Not Detected (< 2 ppm)

-ppm = mg/kg

(2) Flame Retardants	"PCB" (mixed)
Polybrominated Biphenyls (PBBs)	
Monobromobiphenyl	N.D.
Dibromobiphenyl	, N.D.
Tribromobiphenyl	N.D.
Tetrabromobiphenyl	N.D.
Pentabromobiphenyl	N.D.
Hexabromobiphenyl	N.D.
Heptabromobiphenyl	N.D.
Octabromobiphenyl	N.D.
Nonabromodiphenyl	N.D.
Decabromodiphenyl	N.D.
Polybrominated Diphenylethers (PBDEs)	
Monobromodiphenyl ether	N.D.
Dibromodiphenyl ether	N.D.
Tribromodiphenyl ether	N.D.
Tetrabromodiphenyl ether	N.D.
Pentabromodiphenyl ether	N.D.
Hexabromodiphenyl ether	N.D.
Heptabromodiphenyl ether	N.D.
Octabromodiphenyl ether	N.D.
Nonabromodiphenyl ether	N.D.
Decabromodiphenyl ether	N.D.

Note: - N.D. = Not Detected (< 5 ppm)

-ppm = mg/kg

Remark: The sample was analyzed on behalf of the applicant as mixing whole / part sample in one testing. The result in report means average of whole sample. The result may deviate from the real data represented by homogeneous material as requested by RoHS.

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No. SH6046093/CHEM

Date: Apr. 24, 2006

Page 1 of 5

SHANGHAI NICERA SENSOR CO..LTD NO.888. WEN SHUI EAST ROAD. SHANGHAI

Report on the submitted sample said to be HALL ELEMENTS (PACKAGE).

SGS Ref No.

SHEC0060420269-1

Model

PB FREE TYPE

Sample Receiving Date : Apr. 19, 2006

**Testing Period** 

: Apr. 19 - 24, 2006

**Test Requested** 

: 1) To determine the Cadmium, Lead, Mercury, Hexavalent Chromium Content of the

submitted sample.

2) To determine the PBBs(Polybrominated biphenyls) PBBEs(PBDEs)

(Polybrominated biphenyl ethers) Content of the submitted sample

Test method/Test Results: Please refer to next page

Signed for and on behalf of SGS-CSTC Chemical Laboratory

Ella Zhang

Sr. Section Head

ical Laboratory.

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No. SH6046093/CHEM

Date: Apr. 24, 2006

Page 2 of 5

Test method

: 1) Cadmium (Cd)

With reference to EN 1122:2001, Method B or other acid digestion for sample,

see flowchart (1) for sample.

Analysis was performed by Inductively Coupled Argon Plasma – Atomic Emission Spectrometry (ICP-AES)or Atomic Absorption Spectrometry.

Lead (Pb)

With reference to EPA Method 3050B/ 3051/ 3052, or other acid

digestion, see flowchart (2) for sample.

Analysis was performed by Inductively Coupled Argon Plasma-Atomic Emission Spectrometry (ICP-AES) or Atomic Absorption Spectrometry.

Mercury (Hg)

With reference to US EPA 3052 or other acid digestion, Analysis was performed by Inductively Coupled Argon Plasma – Atomic Emission Spectrometry (ICP-AES) or US EPA7473 Analysis was performed by Hg Analyzer.

Hexavalent Chromium (Cr6+)

With reference to EPA Method 3060A & 7196A

The samples were alkaline digested by using EPA Method 3060A, and then

analyzed by using Colorimetric method 7196A.

2) With reference to USEPA 8081A/8270D/3540C/3550C, Analysis was performed by GC-MS.

Test Results

1) Cadmium, Lead, Mercury, Hexavalent Chromium Content

Co., Ltd.

Item		. Unit	DL	No.1*
Cadmium (Cd)		mg/kg	2	N.D.
Lead (Pb)	~	mg/kg	2)	N.D.
Mercury (Hg)		mg/kg	2	N.D.
Hexavalent Chromium (	CrVI)	mg/kg	2	N.D.

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f (86-21)54500314 f (86-21)54500314



No. SH6046093/CHEM

Date: Apr.24,2006

Page 3 of 5

2) PBBs(Polybrominated biphenyls) PBBEs(PBDEs) (Polybrominated biphenyl ethers) Content

<u>Item</u>	<u>Unit</u>	DL	No. 1*
Polybrominated biphenyls (PBBs)	mg/kg		100
PBBs(Monobromobiphenyl)	mg/kg	5	N.D.
PBBs(Dibromobiphenyl)	mg/kg	5	N.D.
PBBs(Tribromobiphenyl)	mg/kg	5	N.D.
PBBs(Tetrabromobiphenyl)	mg/kg	5	N.D.
PBBs(Pentabromobiphenyl)	mg/kg	5	N.D.
PBBs(Hexabromobiphenyl)	mg/kg	5	N.D.
PBBs(Heptabromobiphenyl)	mg/kg	5	N.D.
PBBs(Octabromobiphenyl)	mg/kg	5	N.D.
PBBs(Nonabromobiphenyl)	mg/kg	5	N.D.
PBBs(Decabromobiphenyl)	mg/kg	.5	N.D.
Polybrominated biphenyl ethers ( PBBEs(PBDEs) )			
PBBEs(PBDEs)(Monobromobiphenyl ether)	mg/kg	5	N.D.
PBBEs(PBDEs)(Dibromobiphenyl ether)	mg/kg\	5	N.D.
PBBEs(PBDEs)(Tribromobiphenyl ether)	mg/kg	5	N.D.
PBBEs(PBDEs)(Tetrabromobiphenyl ether)	mg/kg	5	N.D.
PBBEs(PBDEs)(Pentabromob)phenyl ether)	mg/kg	, 5	N.D.
PBBEs(PBDEs)(Hexabromobiphenyl ether)	mg/kg	5	N.D.
PBBEs(PBDEs)(Heptabromobiphanyl ether)	mg/kg	5	N.D.
PBBEs(PBDEs)(Octabromobiohenyl ether)	mg/kg	5	N.D.
PBBEs(PBDEs)(Nonabromobiphenyl ether)	mg/kg	5	N.D.
PBBEs(PBDEs)(Decabromobiphenyl ether)	mg/kg	5	N.D.

## Sample Appearance Description(Photo see appendix):

No.1. Black solid part(mix all)

Note: 1mg/kg=1ppm=0.0001%

DL= Detection Limit

N.D. = Not detected

cal Laboratory.

Not Detected is reported when the reading is less than detection limit value.

\*The sample(s) was analyzed on behalf of the applicant as mixing whole/part sample in one testing. The result(s) in report means average of whole sample. The result(s) will be different obviously if the sample(s) was tested as requirement of RoHS, and result(s) may be higher than that of report. The applicant will take the responsibility of all discrepancy and risk.

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SHCHEM 732597

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t (86-21)61402666 \* 2720 t (86-21)61402553

f (86-21)54500314 f (86-21)54500314

www.cn.sqs.com e sgs.china@sgs.com



No. SH6046093/CHEM

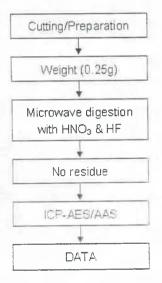
Date: Apr.24,2006

Page 4 of 5

## **ATTACHMENTS**

Flow chart 1

Flow chart of digestion for Cd



The samples were dissolved totally by pre-conditioning method according to above flow chart

Tested by

Andy Lu

Checked by

Terry Wang

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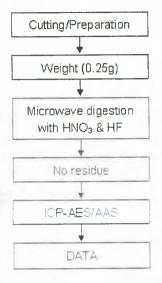
No. SH6046093/CHEM

Date: Apr.24,2006

Page 5 of 5

Flow chart 2

Flow chart of digestion for Pb



The samples were dissolved totally by pre-conditioning method according to above flow chart.

Tested by

: Jeff Zhang

Checked by

Terry Wang

\*\*\* End of Report \*\*\*

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No. SH6046093/ CHEM

Page 1 of 1

### **PHOTO APPENDIX**



SGS authenticate the photo on original report only

Signed for and on behalf of SGS-CSTC Chemical Laboratory

> Ella Zhang Sr. Section Head

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SHCHEM691021



No. SH6046094/CHEM

Date: Apr. 24, 2006

Page 1 of 2

SHANGHAI NICERA SENSOR CO.,LTD NO.888. WEN SHUI EAST ROAD, SHANGHAI

Report on the submitted sample said to be HALL ELEMENTS (PIN).

SGS Ref No.

: SHEC0060420269-2

Model

: Pb FREE TYPE

Testing Period

Sample Receiving Date: Apr. 19, 2006 : Apr. 19 - 24, 2006

Test Requested

: 1) To determine the Cadmium Content in the submitted sample.

2) To determine the Lead Content in the submitted sample.

3) To determine the Mercury Content in the submitted sample.

4) To determine the Hexavalent Chromium Content on the submitted sample.

Test Method

: 1) With reference to BS EN 1122:2001, Method B, or other acid digestion.

Analysis was performed by Inductively Coupled Argon Plasma Atomic Emission

Spectrometry (ICP-AES) or Atomic Absorption Spectrometry.

2) With reference to EPA Method 3050B 3051 3052, or other acid digestion

Analysis was performed by Inductively Coupled Argon Plasma-Atomic Emission

Spectrometry (ICP-AES) or Atomic Absorption Spectrometry.

3) With reference to US EPA 3052 or other acid digestion, Analysis was performed by Inductively Coupled Argon Plasma - Atomic Emission Spectrometry (ICP-AES) or

US EPA7473 Analysis was performed by Hg Analyzer.

4) With reference to EPA Method 3060A & 7196A.

The samples were alkaline digested by using EPA Method 3060A, and then

analyzed by using Colorimetric method 7196A.

Test Results

: Please refer to next page

Signed for and on behalf of SGS-CSTC Chemical Laboratory

Ella Zhang

Sr. Section Head

s Co., Ltd

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t (86-21)61402553

f (86-21)54500314 f (86-21)54500314 e sgs.china@sgs.com



No. SH6046094/CHEM

Date: Apr. 24, 2006

Page 2 of 2

#### Test Results:

No.	<u>Item</u>	Unit	DL	Α
1	Cadmium (Cd)	mg/kg	2	N.D.
2	Lead (Pb)	mg/kg	2	15
3	Mercury (Hg)	mg/kg	2	N.D.
4	Hexavalent Chromium (Cr VI)*	mg/kg	2	N.D.

#### Sample Appearance Description(Photo see appendix):

A. Silvery metal

Note: 1mg/kg=1ppm=0.0001%

DL= Detection Limit N.D. = Not detected

Not Detected is reported when the reading is less than detection limit value.

\* As requested by client, EPA 3060A/7196A were used for determination of the sample

\*\*\* End of Report \*\*\*

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f (86-21)54500314 f (86-21)54500314

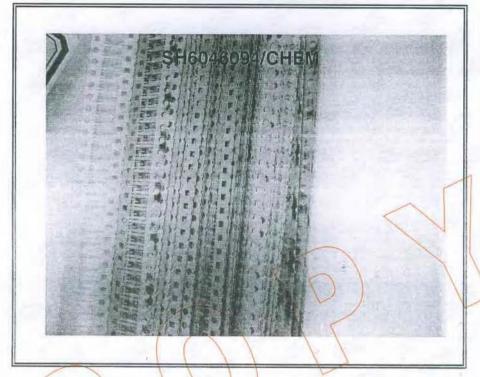
e sgs.china@sgs.com



No. SH6046094/ CHEM

Page 1 of 1

#### PHOTO **APPENDIX**



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> Ella Zhang Sr. Section Head

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SHCHEM 691020

t (86-21)61402666 \* 2720 t (86-21)61402553

好次编号		T	2		学》	1	WP.	3/6	移	北	化验		-	ent	6.6
2/03	The same of the	Si	Mg	Fa	10	1.	or or		村長		- 1	6倍檢	SEC .		6.6
Torbes	\$90 x 320	010	10.03	0.15	Vann	,	-	Zn	Ti	品粒度	气孔	央杂	放松	製紋	表面质
	690 x 320				·	KDES	Kens	1904	Ke 03	一体	2	R	10	Ă	214
			-	-	-								-	-	
		1	-	-	-	-							1	+	
			1	1	1	1	-+	-	-	1	I		7	1	
		1	T			1	+	1	+	1	文章中	10			
		+	1	1	I		1	1	+	1	发行	4	1	1	
	-	+	+	+	1	1			1	+	+	+	+	+	
心验宣意见:						-	1				1	+	+	+	
子全 <u>多</u>	2 -			Ξ.		13	管部/	意見	-					_	
27.7	多,约	cus	经;	D G			1	" FE	Mag.						

Program:Al-6000 Comment:Al-alloys global Single spar:(s)

Sample No 6063--BG04201 (153mm) Sample Id: (ADE IN BAHRAIN

## Elements: Concentration

Quality:6063-T5

NO:	Si	/· Fe	Cu	Mn	Mg
	% 1	%	%	%	%
1	0.4053	0.1663	0.0163	0.0080	0.541
22	0.4128	0.1632	0.0163	0, 0078	0.569
3	11, 4107	0. 1649	0.0155	0.0078	0.570
-1 15	0.4106	.0.1613	0.0156 -	0.0079	0. 568
15	0.4117	0.1620	0.0153	0.0078	0.672
NO	Zn	Ni	Cr ·	Pb	Sn
	%	%	%	4/0	%
1	<0.0100	0.0051	0.0032	0.0018	< 0.0010
3	-0.0100	0.0051	0.0031	0.0017	<0.00100
	-0.0100	0.0052	0.0031	0.0016	<1) 0100
-1	< 0.0100	0.0050	0.0031	0.0015	< 0.0010
4	-0.0100	0.0050	0.0031	0.0016	<0.0010
NO	Ti	Bi	Zr	A1	
131.5	%	%	%	%	
1	0.0164	<0.0010	0.0010	98.8	
1	0.0154	< 0.0010	0.0010	98.8	
	0.0150	< 0.0010	0.0010	98.8	
1	0.0155	< 0.0010	0.0010	98.8	
	0.0150	0.0010	0.0010	98.8	
500	200000000000000000000000000000000000000	AND CONTRACTOR		180	

Program: AL 6000 Comment: Al alloys global

Avigange (nº 5)

Sample Not-063--BG04208 [53mm] Sample Not-4ADE IN BAH (AIN

> Si Fe 25 11/4 £ 2000 ' 0.1635 0.410 0.3500 0, 600 Zn Ni 1/0 % 0.0100 0,0051 1, 1000 Ti 131 174 % < 0.0010 1.0155 1.1000 有照样



Mn Mg Cu 9% 9% 0.4500 0.0079 0, 569 0.0154 0.900 0.1000 0.1000 Sn Pb (r 0/0 % % 0.0016 <0.0010 0.0031 0.1000 11 7. 96 9% < 0.0010 98. 8

测试人: E华桥



测试报告

编号: GZSCR050531917/LP 日朝: 2005年5月31日页码1 of 2

东莞泓璋电子科技有限公司 **东莞市黄江镇黄京坑村** 

本报告是基于所提供的名称为"散热片"的样品所做的划试

SGS参考编号

: SZ050508915EC

收板日期

1 2005年5月24日

测试日期

+ 2005年5月24日至2005年5月30日

瀕 试 要 求

:(1)委托样品中的铅、锯、汞和六价铬含量。

(2)委托样品中的多溴联苯、多溴联苯醛的含量。

测试方法

: (1) 铅含量 -SGS 内部方法,参照 EPA 方法 3050B:1996。 镉含量 -SGS 内部方法,参照 BS EN1122:2001 方法 B。 表含量 -SGS 内部方法,参照 EPA 方法 3052: 1996。 六价络含量 - 参照 EPA 方法 3060A:1996 和 7196A:1992。 分析仪器为电够耦合等离子体发射光谱仪/紫外分光光度计。

(2)SGS内部方法。分析仪器为GC/MS。

测试结果;清参见下一页

Signed for and on behalf of SGS-CSTC Ltd.

Xie YongBiao, Sam Lab Manager

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Sangta PercoCorne atropo-

SGESSTESS SECTION FOR STATE ST 1185-56182165000 1/08-2045159658 a sgrich maßings.com 中國。广州、天河区东南珠村员山路裕景工业园八栋四楼 邮编:510650



# 测试报告

编号: GZSCR050531917/LP

日期: 2005年5月31日 页码 2 of 2

测试结果:

(1)

1.7	No.1	No.2	No.3
销含量 (ppm)	1.5	18	5
備含量	N.D.	N.D.	N.D.
表含量	N.D.	N.D.	N.D.
六价铬含量	N.D.	N.D.	N.D.

说明:-N.D. = 没有检测到 (< 2 ppm) - ppm = 毫克/千克

阻燃剂	No.1	No.2	No.3	检测限
多溴联苯				
单溴联苯	N.D.	N.D.	N.D.	5 ppm
二溴联苯	N.D.	N.D.	N.D.	5 ppm
三溴联苯	N.D.	N.D.	N.D.	5 ppm
四溴联苯	N.D.	N.D.	N.D.	5 ppm
五溴联苯	N.D.	N.D.	N.D.	5 ppm
六溴联苯	N.D.	N.D.	N.D.	5 ppm
七溴联苯	N.D.	N.D.	N.D.	5 ppm
八溴联苯	N.D.	N.D.	N.D.	5 ppm
九溴联苯	N.D.	N.D.	N.D.	5 ppm
十溴联苯	N.D.	N.D.	N.D.	5 ppm
多溴联苯醚			***	
单溴联苯醚	N.D.	N.D.	N.D.	5 ppm
_ 溴联苯醚	N.D.	N.D.	N.D.	5 ppm
三溴联苯醚	N.D.	N.D.	N.D.	5 ppm
四溴联苯醚	N.D.	N.D.	N.D.	5 ppm
五溴联苯醚	N.D.	N.D.	N.D.	5 ppm
六溴联苯醚	N.D.	N.D.	N.D.	5 ppm
七溴联苯醚	N.D.	N.D.	N.D.	5 ppm
八溴联苯醚	N.D.	N.D.	N.D.	5 ppm
九溴联苯醚	N.D.	N.D.	N.D.	5 ppm
十溴联苯醚	N.D.	N.D.	N.D.	5 ppm

说明: - N.D. = 没有检测到 (< 5 ppm)

- ppm = 毫克/千克

# 样品描述:

No.1 银色金属件 (银色金属)

No.2 铜色金属件 (铜材)

No.3 银色金属件(银色支架)

\*\*\* 报告完 \*\*\*

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GZCM 2521147

\$5802 (Shahiri) Travel Server Do Jd. Scorgered Breed-Charles Laboratory.

4Y (3 cdx 6, hulling heastful Familing Shar Rose, Zhu Can Dong Pu Area Tame Charlet Skangstou Chino 510900 1(96-20)(219900 1496-20)(219059) www.spickid.com 中国-广州·天河区东便珠村美山路裕景工业园八将四楼 邮编:510660 1(96-23)60183900 f188-20/82169858 e 1gs-chingligs.com

# MINERON PLASTIC SHEEETS



77 154	-	-	1		7		15, 50	_167
PROPERTIES	物性	METH (ASI	MI)	INIT L位	PV	HIP	S APE	T PET
Welting Point	常工	DS	0)	°C	i		251	
G ass transition tomperature	破球化 機變退度	DS	G)	°C	67.5			74
Difflection te operature	# 伯温泉	(DSC	2)	c	62	82	65	74
Strinkage www			22 1					
90 °C	lorizona: t	<b>K</b> :			1.0	1.0	1.2	9.0
	ertical a	F."	a		4.8	. 0	0,5	0.3
110°C	orizonal #	•	7	•	1.0	5.2	5.0	4.4
	erical 🛎				39	1.2	2.3	2.3
proffic Gravity	此職	D 792	g/c	m²	1,4	1.06	1.34	1.27
(arer Abscrption	吸水车	0 570	%		0.64	0.46	0.42	0.46
ensile strength Greak	斷製強度	0 638	ps	-	6820	3750	8900	
and the same of th	斯發伸長達	D 538	96		178	25	471	7890
	女伸视量	D 538	10° p	si	759	100	-	6
di ess (Fockwell)	增氏硬度	C 785	R	-	31		839	618
ia it Strength 有到	冲聲街度	D -795	J/M	+	3100	69	70	74
exural Horizona	1 198				2.00	4000	7200	6900
feigth 母连胺 Vertical	76	D 790	psi	1	1800	6590	11200	7980
xt rai Horizona	-			1	1200	8590	10800	7980
dulus I## Vertical	31	D 780	103 psi	g	67	436	731	500
DI EGOING DATA ARE EL AGE PROPERTIES	1020	1		. 10	010	473	719	583



No. 2031519/EG

Date : Aug 06 2005

Page 1

ZHONG FAINDUSTRAL CO FLAT A, SVF , JAIFAT BUILDING 45-17 CONNAUGHT ROAD WEST, HONE KONF

Report on the submitted sample said to be PVC 選明證片。

Item No. Supplied Manufacturin Country of Origin Country of Destination Sample Receiving Date Testing Period

322371 D060714718E 111 P1.00795\$000 分割知慧 TANVAN CHINA JUL 27 2005 JUL 28 - AUG 04 2005

Ten Requested

- To determine the Cadmium Content in the submitted supple. To determine the Least Content in the submitted sample.

  To determine the Markury Content in the submitted sample.
- 2)
- To perermine the Hexavalent Chromium Content on the submitted 3)
- 4) To determine PBBs (polyprominated biphenyls) and PBBEs (Polys mi# 301 siphenylethers) of the submitted sample.
- To determine the Tributyitin (TBR), Triphenystin (TPT) in the sub-time 6) sample.

Test Method

With reforence to BS EN 1122:2001, Method B, analysis was part. (4) Indoctively Coupled Argon Plasma-Atomic Emission Spectrometry

AES) With reference to EPA Method 80508/ 3051/ 3052, Auralysis was performed by inductively Coupled Argor Plasms-Ar-

Emission Specifornitry (ICP-AES). With reference to EPA Method 3051/3062.

Analysis was performed by Inductively Coupled Argon Plasma-Att. II Emission Spectrometry (ICF-AES)

With reference to EPA Method 3060A & 7196A.

The secondes work affecting discrete by uting EPA Machine 306.34.

dr LC/ MS.

With reference to DIN 38407-13. Analysis was performed by GC/1

Test Results

福祉(1) 2大 31.1

1-3) Please refer to next page.

Signed for and on behalf of SG3 Hone Kons Ltd

He Ka Ting Family Laboratory Executive

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Die Beit Beid in Frangerin Burt Stangman, firen im States i fic "Entre 1996 in-STATEMENT TO THE STATE OF THE コニー 記 当州将や津鈴県士道大厦3銭

7 3 4 4 10 to the firm Member of SGS Store 100



No. 2031519/EC

Date : Aug 06 2005

Page .

Test Results

Test Heautts	Transparent Plastic	Detection Limit
Test Item	ND ND	2 opm
1) Cadmium (Gd) 2) Leed (Pb)	ND ND	2 ppm 2 ppm
3) Mercury (Hc)	ND	2 opm

(Results shown are of the total weight of samples)

Note: ppm = ng/kg

ND = Not Determine Not retained to the control of t

5)/	Transparent Plastic	Detection Lim
Flame Retardants	Transportation	A
Polybrominated Biphenyls (PBBs)		5 ppm
Manabremobiphenyl	ND	5 ppm
Dibremebipheny	NDI	5 ppm
Tribromobiphenyl	ND	1 u ppm
Tetrabromabippeny!	ND	-5 pom
Pentabromobiohenyl		5 com
Hexabromobighenyl	ND ND	5 opm
Heptabro nobiphenyl	- ND	5 ppm
Octabromobipheny	100	5 ppm
Nonabromooiphenyi	NO	the state of the s
Decapromotioneny		5 ppm
Polybrominated Diphenylethers (PBDEs) /	100	
Monabromodiohony ethe	ND	3 ppm
Dibromodiphenyl other	ND ND	5 ppm
Tab prodictiony edier	ND	5 opm
Tetrabromodipheny) ether	NO:	5 ppm
Pentabromodiphenyl ethe:	ND	5 ppm
Hexapromodispany ather	ND	5 port
Hoptabromodiphenyl ether	ND	5 ppm
Octabromod phenyl sther	ND	5 ppm
Nonabromod phenyl ether	I ND	5 ppm
Decablowed the ethal	ND	5 ppm

ND + Not Det=2e3

Not detected was reported when the reading is less than detection limit value.

Test Item	Transparent Plastic	Detected Limit
Tributyilin (TBT)	ND	0.02 ppm
Triphenyltin (TPT)	ND	Q.Q2 ppm

Note: ppm = mg/kg

HICKLORES IN

ND = Not Detected

Not detected was reported when the reading is less than detection limit value

Remark: Tost was conducted in SGS Hong Kong Limited

\*\*\* End of Report \*\*\*

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aid Conditions are also diju terristional policies i sample(s) are recarred

Member of \$35 Gm.

5ZE 11311

162 S. a. de Jacobierto

长春

# 長春人造樹脂廠股份有限公司 含北市10477松江時三舉一號七樓

CHANG CHUN PLASTICS CO.,LTD.

TLX-2255 LONGLITE NO.3 CABLE ADDRESS: LONGLITE TAPEL

T. T. AN

NO.301 SONORIANG ROAD, 7FL. TAIPEI, 10477 TAIWAN

FAX: (02)05033378 TEL: (02)05038131

林貞豐明
MATERIAL FORMULATION CONFIDENTIAL REPORT

疫港 Customer:

交質名称 Type of Material: PBT (Poly Butylens Terephthalate) 聚丁烯對苯二甲酸醌

規格 Grade: PBT 4815 & 4820 & 4830 & 4115 & 4120 & 4130

說明 Description

范徵號 PBT 4815 & 4820 & 4830 & 4115 & 4120 & 4130 经成如下;

規格	PB1 Resin CAS NO. 26062-96-2	Flame Resertant CAS NO. 68928-70-1	Flame Retardant CAS NO. 71342-77-2	Antimony Trioxide CAS NO. 1309-64-4	Gless Piber CAS NO. 65997-13-3	Additives CAS NO.
4115	58.5	16.5		5	15	
4120	53.5	16.5			20	
4130	46.5		14	4.5	1 3000	5
4815	66	11		4.0	30	5
4820			-	3	15	_ 5
	61	11		3	20	. 3
4810	52.5	10	. 1	2.5	30	5

供應於 MATERIAL SUPPLIER

Company CHANG CHUN PLASTICS CO. LTD.

Address: No.14 KUNG-YEH IST RORD, JEN-WU INDUSTRIES DISTRICT.

KACHSIUNG TAIWAN ROC

Date: NOV 5, 2004



REPORT NO.KA/2005/B0920

DATE: 2005/11/23 PAGE: 1 OF 3

#### 

THE FOLLOWING MERCHANDISE WAS(WERE) SUBMITTED AND IDENTIFIED BY THE CLIENT AS:

CLIENT

: SUNNY MAY ENTERPRISE CO., LTD.

PRODUCT DESCRIPTION

GE PC RESIN 945-NC.

SAMPLE

: AS ATTACHED PHOTO.

**TESTING DATE** 

: 2005/11/16 TO 2005/11/23.

SAMPLE RECEIVED

: 2005/11/16.

WE HAVE TESTED THE SAMPLE(S) SUBMITTED AS REQUESTED AND THE FOLLOWING RESULTS WERE OBTAINED.

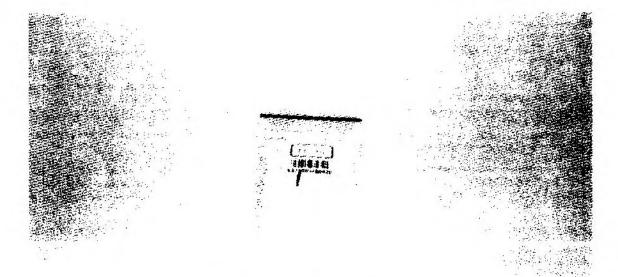
TEST ITEM(S)	UNIT	METHOD	DET. LMT	RESULT
Cadmium (Cd)	ppm	ICP-AES after reference to EN 1122 :2001 or other acid digestion.	2	n.d.
Chromium VI (Cr+6)	ppm	As per US EPA 7196A and US EPA 3060A.	2	n.d.
Mercury (Hg)	ppm	ICP-AES after reference to US EPA 3052 or other acid digestion.	2	n.d.
Lead (Pb)		ICP-AES after reference to US EPA 3050B or other acid digestion.	2	n.d.
PBBs(Polybrominated biphenyls)			( <del></del>	
Monobromobiphenyl	%		0.0005	n.d.
Dibromobiphenyl	%		0.0005	n.d.
Tribromobiphenyl	%	1 Marie and annual to LICEBAGE 40C on	0.0005	n.d.
Tetrabromobiphenyl	%	With reference to USEPA3540C or	0.0005	n.d.
Pentabromobiphenyl	%	USEPA3550C. Analysis was performed by HPLC/DAD, LC/MS or GC/MS. (prohibited by	0.0005	n.d.
Hexabromobiphenyl	%		0.0005	n.d.
Heptabromobipheny!	%	2002/95/EC (RoHS), 83/264/EEC, and 76/769/EEC)	0.0005	n.d.
Octabromobiphenyl	%	(O/TOS/EEC)	0.0005	n.d.
Nonabromobiphenyl	%	1	0.0005	n.d.
Decabromobiphenyl	%		0.0005	n,đ,

Kueilan Chen / Asst. Supervisor Sign for and on behalf of SGS Talwan Limited



REPORT NO.KA/2005/B0920

DATE: 2005/11/23 PAGE:3 OF 3



KA/2005/B0920



This Test Roport is issued by the Company subject to its General Conditions of Service printed overleaf. Attention is drawn to the similarition and Jurisdictional issues defined therein. The results shown in this fest report refer only to the sample(s) lested unless otherwise stated. This Test Report cannot be reproduced except in tall without non-written permission of the Company. In Microsoft except in tall without non-written permission of the Company. In Microsoft except in the Microsoft except exce

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REPORT NO.KA/2005/B0982

DATE: 2005/11/24 PAGE: 1 OF 3

# 

THE FOLLOWING MERCHANDISE WAS(WERE) SUBMITTED AND IDENTIFIED BY THE CLIENT AS:

CLIENT

: SUNNY MAY ENTERPRISE CO., LTD.

PRODUCT DESCRIPTION

: GE PC RESIN 3412R-739.

SAMPLE

: AS ATTACHED PHOTO. : 2005/11/17 TO 2005/11/24.

TESTING DATE
SAMPLE RECEIVED

: 2005/11/17.

WE HAVE TESTED THE SAMPLE(S) SUBMITTED AS REQUESTED AND THE FOLLOWING RESULTS WERE OBTAINED.

TEST ITEM(S)	UNIT	METHOD	DET. LMT	RESULT
Cadmium (Cd)	ppm	ICP-AES after reference to EN 1122 :2001 or other acid digestion.	2	n.d.
Chromium VI (Cr+6)	ppm	As per US EPA 7196A and US EPA 3060A.	2	n.d.
Mercury (Hg)	ppm	iCP-AES after reference to US EPA 3052 or other acid digestion.	2	n.d.
Lead (Pb)	ppm	ICP-AES after reference to US EPA 30508 or other acid digestion.	2	n.d.
PBBs(Polybrominated biphenyls)		***		
Monobromobiphenyl	%		0.0005	n.d.
Dibromobiphenyl	%		0.0005	n.d.
Tribromobiphenyl	%	146th	0.0005	n.d.
Tetrabromobiphenyl	%	With reference to USEPA3540C or	0.0005	n.d.
Pentabromobiphenyl	%	USEPA3550C. Analysis was performed by HPLC/DAD, LC/MS or GC/MS. (prohibited by	0.0005	n.d.
Hexabromobiphenyl	%	2002/95/EC (RoHS), 83/264/EEC, and	0.0005	n.d.
Heptabromobiphenyl	%	76/769/EEC)	0.0005	n.d.
Octabromobiphenyl	%	rorrosieec)	0.0005	n.d.
Nonabromobiphenyl	%	]	0.0005	n.d.
Decabromobiphenyl	%		0.0005	n.d.

Kuellan Chen / Asst. Supervisor Sign for and on behalf of SGS Talwan Limited



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REPORT NO.KA/2005/B0982

DATE: 2005/11/24

PAGE: 2 OF 3

TEST ITEM(S)	UNIT	METHOD	DET. LMT	RESULT
PBDEs(Polybrominated biphenyl ethers)			•••	
Monobromobiphenyl ether	%	Os & As &	0.0005	n.d.
Dibromobiphenyl ether	%		0.0005	n.d.
Tribromobiphenyl ether	%	With reference to USEPA3540C or	0.0005	n.d.
Tetrabromobiphenyl ether	%		0.0005	n.d.
Pentabromobiphenyl ether	%	USEPA3550C. Analysis was performed by HPLC/DAD, LC/MS or GC/MS. (prohibited by	0.0005	n.d.
Hexabromobiphenyl ether	%	2002/95/EC (RoHS), 83/264/EEC, and	0.0005	n.d.
Heptabromobiphenyl ether	%		0.0005	n.d.
Octabromobiphenyl ether	%	76/769/EEC)	0.0005	n.d.
Nonabromobiphenyl ether	%		0.0005	n.d.
Decabromobiphenyl ether	%		0.0005	n.d.

NOTE: 1, n.d. = not detected.

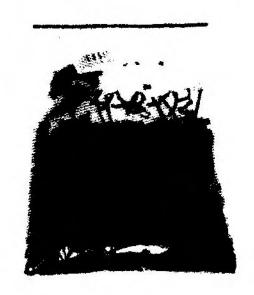
2. DET. LMT = DETECTION LIMIT.

<END>

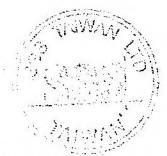




REPORT NO.KA/2005/B0982 DATE: 2005/11/24 PAGE:3 OF 3



KA/2005/B0982



合并 8 OL WOARANGE 中华 冷寒林 REMARKS STION ECHERIC 如果 40 SE SE SPECIFICATION A A A IT 竹 **資 申** 注 100 激 SHANGHAI BROAMA TO LANDING TOTAL NO -OLYMBIS RT.COLD-BUND 155? 古供: 194 DESIGNATION \* D-DIAMETER TISSTED WITH SATISTEACTORY RESULTS IN ACCORDANCE WITH THE REQUIREMENTS OF THE C WE HEREBY CERT IF THAT MATERIAL DESCRIBED HEREBY HAS MANUFACTURED AND 55.83 10-10 10 直發 ATTAINABLE PRECISION 各广岛已经上进来关键的制造和股份,尽能共享全是大 机共压机 240 ぬ件 ž **施展与平平** HEDSTREAM TO HELD THE THE PROPERTY OF THE PROP 282420 MASS (Ne) ₹£262420 \* 10" \* 10" \* 10" \* 10" \* 10" \* 10 = DUALITY 0 0 CHEMICAL COMPOSITION 6 TS. TENSILE STRENGTH DEC-DECARBURIZATION CUSTONER ONDER NO 死华成 中名 DATE OF ISSUE CICENSE NO FRODUCT PRODUCT Z 各类日期 非可以子 CERTIFICATE Ca. 加工用液:(APPLICATION) G.S. -GRAIN SLIPE TO SER - SUM 2006.00, 17 香口海 TENSILE LEST 音に茶 -2月本 DATE OF DELIVERY a CONTRACT NO CERTIFICATE NO 221 HUANG XIN DO. 3 THE 20080 TEUPLE'S REPUBLIC OF CHRIM POST CODE: 20030 TEL:(02)M5384493 85188886 2325 PAX:(92)M5472829 中国本 百分子 WAGEMENT DEPT THE THUN OF AREA 34 9 B.T (MR) DEC 玩處 CS かな S-12560 N 2005.01.16 Lu 李奉 SE

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			OTAL - STL								<b>₩</b> 0.	管理 秦号	OLLED STEEL		HUANG KANG METAL MEG	9-16-0M-373-2681-060	% 373-0824-003
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		MANUFACTURED IN ACCORDANCE WITH THE STANDARDS AND SPECIFICATION SPECIFIED BY YOU AND THAT IT SATISFIES THE REQUIREMENTS.	上野社文品は国語記の開始はたは仕様に従って製造なり、その機械製造を構造している。		4	15/4	4.)		770.0 5.0	180 30		100 PECA-	1.60×914×C	78S) 29S	- Art.	CERTI	有信何
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No.: GZSCR050751200/LP

Date: JUL 25, 2005

Page 1 of 1

DONGGUAN QISHI JINXIN HARDWARE PRODUCT FACTORY UNIT 1304 13/F, HONOUR INDUSTRIAL CENTRE, 6 SUN YIP STREET, CHAI WAN, HONGKONG

Report on the submitted sample said to be 铁线 1018

SGS Ref No.

: SZ0507.13984EC

Sample Receiving Date

JUL 19, 2005

Testing Period

JUL 19, 2005 TO JUL 25, 2005

Test Requested

: As specified by client, to determine the Lend, Cadmium, Mercary & Hexavalent Chromium

content in the submitted sample.

Test Method

: Lead content - In house method, with reference to EPA mathod 3050B: 1996 .

Cadmium content - In house method, with reference to BS EN1122 2001 method B.

Analysis was performed by inductively Coupled Plasma Atomic Emission Spectrometer (ICP-

AES) / UV-VIS Spectrophotometer.

RESULTS

Lead Content (Pb) Cadmium Content (Cd) Mercury Content (Hg)

Hexavalent Chromium Content [Cr(VI)]

NO.1	No. 2
N.D.	N.D.
N.D.	N.D.
N.D.	N.D.
ND	ALD:

Note: - N.D. = Not Detected (< 2 ppm) - ppm = mg/kg-

Specimen description: No.1 Grey metal wire (2 92) No.2 Grey metal wire (2.59)

\*\*\* End of Report \*\*\*

Signed for and on behalf of SGS-CSTC Ltd.

He Xiaoyan, Jane Tech, Manager

This Test Report is issued by the Company subject to its General Conditions of Service printed over earl or attached. Said Conditions are also for 30 days only. This Test Report shall not be reproduced except in full, without written approval of the Company.

GZCM 2000 1

EGSCSTC Starriant's Technical Services Co., U.S. Outgrow branch Chemical Laboratory

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hard er of SGS Group(Societé Générale de Sumellance);



**GUANGDONG PROVINCE** 

No. 2012293/EC

Date: Feb 02 2005

Page 1 of 2

EVER SPECIAL GROUP HUIZHOU COMPANY EVER SPECIAL INDUSTRY, GARDEN LONGXI TOWN, BOLUO COUNTY, HUIZHOU CITY

Report on the submitted samples said to be PC

SGS Job No.

1695299

\$G\$ Ref. No.

SZEC0050101122EC-2.1

Sample Receiving Date

Testing Period

JAN 22 2005 JAN 22-31 2005

Test Requested

- To determine the Cadmium Content in the submitted sample.
- To determine the Lead Content on the submitted sample.
- to determine the Hexavalent Chromium Content on the submitted sample. 4)
- Determination of PBBs (polybrominated biphenyls), PBDEs (Polybrominated .5) diphenylethers) of the submitted sample.

Test Method

- With reference to BS EN 1122:2001, Method B, analysis was performed by Inductively Coupled Argon Plasma-Atomic Emission Spectrometry (ICP-1)
- As specified in EPA Method 3050B. 2) Analysis was performed by Inductively Coupled Argon Plasma-Atomic Emission Spectrometry (ICP-AES).
  As specified in EPA Method 3052.
  - Analysis was performed by Inductively Coupled Argon Plasma-Atomic Emission Spectrometry (ICP-AES).
    As specified in EPA Method 3060A & 7196A.
- The samples were alkaline digested by using EPA Method 3060A, and then analyzed by using Colonmetric method 7196A.
  - With reference to SGS in-house method. Analysis was performed by GC/MS.

Test Results

1-5) Please refer to next page

Signed for and on behalf of SGS Hong Kong Ltd

Lee Fund Mei, Miranda Senior Manager

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5/F grt 8 28/F 25/F Metricule Square, 2 On You Street, Souter Youn, Shaller N.T., many range 1 6509, 2709 4491 1 6559 2709 4121. Growth Agricum



No. 2012293/EC

Date : Feb 02 2005

Page 2 of 2

Test Results

Element

1) Cadmium (Cd)

2) Lead (Pb)

3) Mercury (Hg)

4) Hexavalent Chromium (Cr 6+)

Black Plastic (PC)

3 ppm

< 2.ppm < 2 ppm < 2 ppm

(Results shown are of the total weight of samples)

Note: <= Less than ppm = mg/kg

A STATE OF THE STA STOREST ...

Detection Limit Black Plastic (PC) Polybrominated Biphenyls (PBBs) Monobromobiphenyl ND 5 ppm ND. Dibromobiphenyl 5 ppm Tribromobiphenyl ND 5 ppm Tetrabromobiphenyl ND 5 ppm Pentabromobiphenyl - ND 5 ppm Hexabromobiphenyl ND 5 ppm Heptabromobiphenyl ND 5 ppm Octabromobiphenyl ND 5 ppm Nonabromobiphenyl ND 5 ppm Decabromobiphenyl ND 5 ppm Polybrominated Diphenylethers (PBDEs) Monobromodiphenyl ether ND 5 ppm Dibromodiphenyl ether ND 5 ppm Tribromodiphenyl ether ND 5 ppm Tetrabromodiphenyl ether ND 5 ppm Pentabromodiphenyl ether ND 5 ppm Hexabromodiphenyl ether ND 5 ppm Heptabromodiphenyl ether ND 5 ppm Octabromodiphenyl ether ND 5 ppm Nonabromodiphenyl ether ND 5 ppm Decabromodiphenyl ether ND 5 ppm

Note: ND = Not Detected

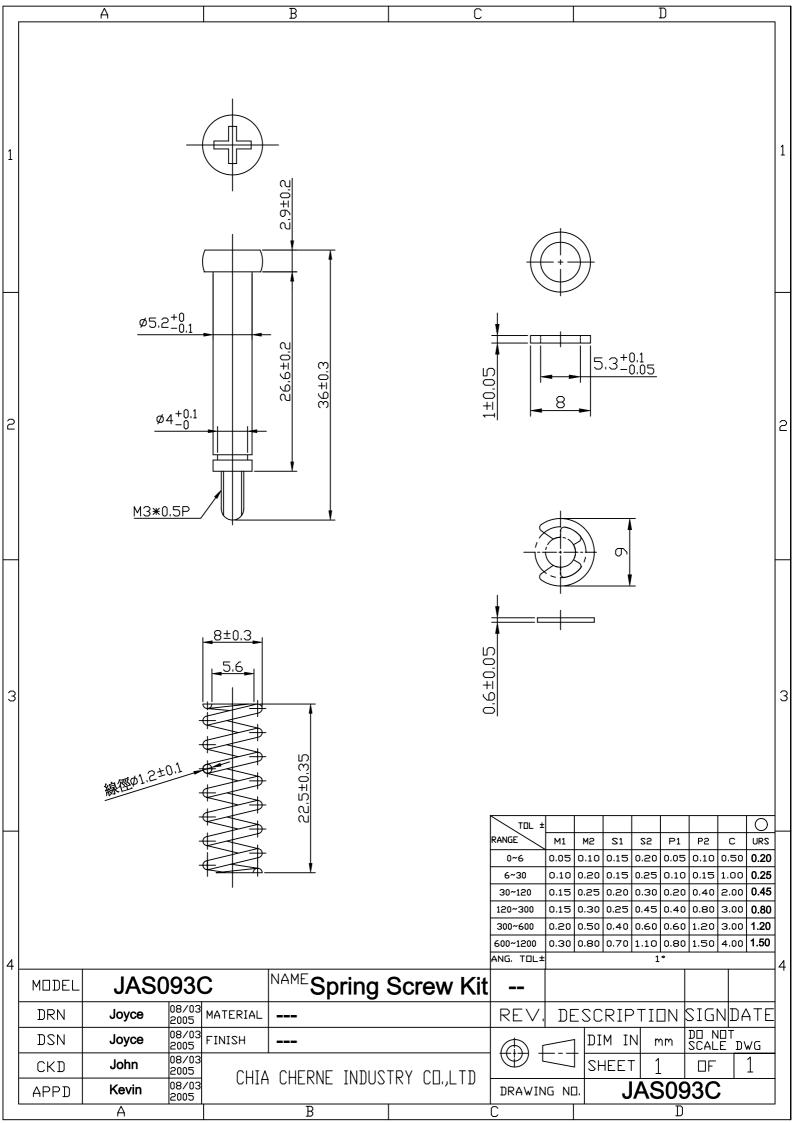
Non-detected is lower than detection limit value.

\*\*\* End of Report \*\*\*

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504 - 804 8-2847 - 2904 - Metuopole Squaro, 2-On You Street, Six Liek Yuen, Shetin, N.T. Hang Kong it (853) 2332-4481 - F (853) 2364-31015 - www.his.com.com

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中国館鐵界仍有限公司 CHINA STEEL CORPORATION

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华西工展展的市界公司 CHUN YU WORKS & CO., LTD. 1.CHIA MSIN RD., CHIA MSIN LI, KAND

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SPECIFICATION

D D TEST CERTIFICATE 答 思 10 hb

中等民國共立市小港區中央時 ] 就 LIN HAI INDESTRIAL DISTRICT P. O. BOX 卓型 BSIAO KANG. KAOHSIUNG(812), TAI WAN, REPUBLIC OF CHINA TELEX: 71105. 71283, 71415 KAOHSIUNG TEL: (07)802-1111 FAX: (07)803-0927 点

ROD-CARBON STEEL 903-0927 80170-027 90181

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REMARKS

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SCRYETOR TO

). CHIMICAL ANALYSIS IS CARRIED OUT BY CSC IN ACCORDANCE WITH TEST METHOD ASTWEATS AND ETOTS WHICH CONFORM TO METAL STANDARDS AND SPECIFICATIONS.

TEST SAMPLES ARE DISC TYPE (9) TEST REPORT RELATES ONLY TO THE SAMPLES BEING TESTED LWD THAT SHALL NOT BE DARITALLY RESPRODUCED.

電路競斗を長所列鹿品・均供料料規格製造及に数・丝符合規格之序共・WE FEREBY CERTITY THAT MATERIAL DESCRIBED FEREIN KAS BEEN MANUFACTURED AND TESTED WITH SATISFACTORY RESULTS IN ACCORDANCE WITH THE REQUIREMENT OF THE ABOVE NATERIAL SPECIFICATION.

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19 2002 07:28PM P1

# QUALITY CERTIFICATION

# 品質證明書

Custermer					
44	留豪	Order NO.		Date	20000
Specification	CIAL C. 1 DO	Process No.		日 整	2003/3/28
10.46 Standard	SW-C LZ0mm	製造工令	M30314	Q.A. De	Q.A. Department
佐雄標率	ī	JIS G 3521		200	温味糖
Chamada		7000000			20.1%
A B	Diameter (mm) 株長	Ovality (mm) 復傷差	T.S. (kg/mm^2)	Twis: No.(turns)	Wrapping
Standard Values			机体液度	位権数	格裁测试
標準值	1.20(-0.015)	0.005MAX	195~220		
Average results	1 100			NIMOS	G000
<b>两</b> 氧平均值	1.130	0.003	203	AF	
Chemical Analysis 成份分析	S	ö		7	N.A
Standard Volume		5	Mn	4	v
標準值 概率值	0.79-0.86	0.15-0.35	030-060		,
Test Results			2000	UUSMAX	0.03MAX
测试平均值 0.83	0.83	0.22	0.40	0,000	+

Wrapping test is suitable for the wire diameter less than 0.5mm. 注:搖機湖試適用線極小於0.5回硬袖網線 品保事 Sprin

Spring Yi Industrial Co.,LTD



# JA 5 09 3 C-1

# **Test Report**

CHUNG YIN SPRING INDUSTRIAL CO., LTD.

36, ALLEY 42, CHUNG HSIN N. ST., SAN CHUNG

CITY, TAIPEI HSIEN, TAIWAN, R. O. C.

Report No. : CE/2004/73547

Date : 2004/08/03

Page : 1 of 1

The following merchandise was (were) submitted and identified by the client as :

Type of Product
Sample Received

: SAE1018-Ni

Testing Date

: 2004/07/27

: 2004/07/27 TO 2004/08/03

# Test Result

PART NAME NO.1

SILVER COLORED METAL

	2					Result	
Test Item (s):	Unit	Method	MDL	No.1			
Chromium VI (Cr+6)	ppm	As per US EPA 7196A and US EPA 3060A.	2 /	N.D.			
Cadmium (Cd)		ICP-AES after as per EN 1122, method B:2001 or other acid digestion.	2	N.D.		2 0 4 5 mm 1	
Mercury (Hg)	ppm	ICP-AES after as per US EPA 3052 or other acid digestion.	2	N.D.	- 10 ASE		E KITAKI
Lead (Pb)	ppm	ICP-AES after as per US EPA 3050B or other acid digestion.	2	27.3			

NOTE: (1) N.D. = Not detected (<MDL)

(2) ppm = mg/kg

. (3) MDL = Method Detection Limit

Dente Yen, M.R. Poperation Manager Signed for and on behalf of SGS TANVAN LTD.

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TW 0975158

SSS Telwen Ltd.

No. 136-1 Wu Kung Road, Wuku Industrial Zone, Taipei Count t (886-2) 2299-3939 f (886-2) 2299-3237

strial Zone, Taipai County, Taiwan. /台北縣五股工業區五工路136-1號 f (886-2) 2299-3237 www.tw.sgs.com

Momber of SES Grow



766097 C->

# **Test Report**

CHUNG YIN SPRING INDUSTRIAL CO., LTD.

36, ALLEY 42, CHUNG HSIN N. ST., SAN CHUNG

CITY, TAIPEI HSIEN, TAIWAN, R. O. C.

Report No. : CE/2004/73545

: 2004/08/03 Date

Page : 1 of 1

The following merchandise was (were) submitted and identified by the client as:

Type of Product

Sample Received

SWC-Ni : 2004/07/27

**Testing Date** 

: 2004/07/27 TO 2004/08/03

**Test Result** 

PART NAME NO.1

SILVER COLORED METAL SCREW

					Result		
Test Item (s):	Unit	Method	MDL	No.1			
Chromium VI (Cr+6)	ppm	As per US EPA 7196A and US EPA 3060A.	2	N.D.			
Cadmium (Cd)		ICP-AES after as per EN 1122, method B:2001 or other acid digestion.	2	N.D.		Ser. 25	
Mercury (Hg)		ICP-AES after as per US EPA 3052 or other acid digestion.	2	N.D.			
Lead (Pb)	ppm	ICP-AES after as per US EPA 3050B or other acid digestion.		40.3			

NOTE: (1) N.D. = Not detected (<MDL)

(2) ppm = mg/kg

(3) MDL = Method Detection Limit

TW 0975156

\$38 Talwan Ltd. No. 138-1 Wu Kung Road, Wisks 台湾被被計技股份有限公司 1886-21 2289-3939 工業區五工路136-1號



CHUNG YIN SPRING INDUSTRIAL CO., LTD. 36, ALLEY 42, CHUNG HSIN N. ST., SAN CHUNG CITY,

TAIPEI HSIEN, TAIWAN, R. O. C.

Report No. : CE/2005/90302

: 2005/09/07 Date

Page : 1 of 1

#### The following merchandise was (were) submitted and identified by the client as:

Type of Product S50C Ni Sample Received : 2005/08/31

: 2005/08/31 TO 2005/09/07 <u>Testing Date</u>

#### **Test Result**

PART NAME NO.1 : SILVER COLORED METAL

(Dark Thank (a))	TT	Method	BATOT	Result
Test Item (s):	Unit	Wetnod	MDL	No.1
Chromium VI (Cr+6)	ppm	UV-VIS after reference to US EPA 3060A.	2	N.D.
Cadmium (Cd)	ppm	ICP-AES after reference to EN 1122, method B:2001 or other acid digestion.	2	N.D.
Mercury (Hg)	ppm	ICP-AES after reference to US EPA 3052 or other acid digestion.	2	N.D.
Lead (Pb)	ppm	ICP-AES after reference to US EPA 3050B or other acid digestion.	2	N.D.

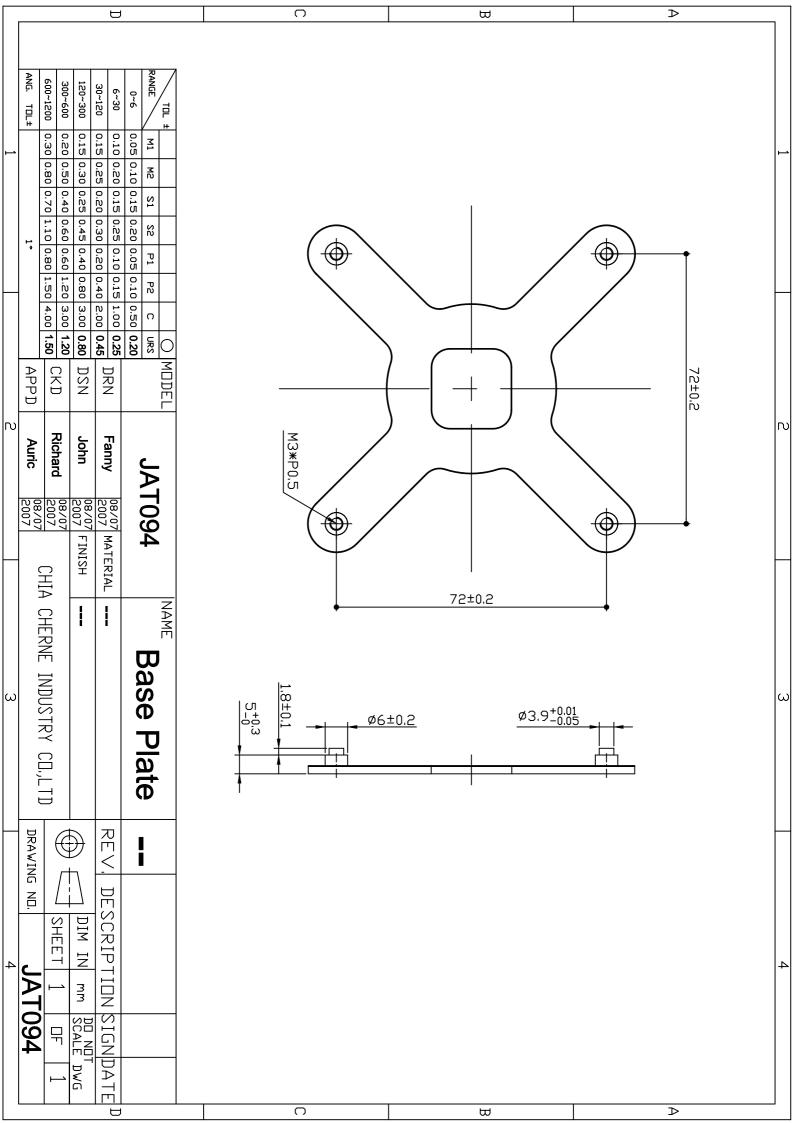
NOTE: (1) N.D. = Not detected (<MDL)

Signed for and on behalf of SGS TAIWAN LTD.

(2) ppm = mg/kg(3) MDL = Method Detection Limit

Operation Manager

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中年代 編 を 第 名 名 本 基 等 等 等 が 年 を ちょっこ 317、YULAO HOAD, CHIAO TOU BELANG, KAGISETING BEIEN, TAIWAN, R.O.C. TELECTRIL 17171(121,1815) FAX:(07)611-0694

**解釋企業股份有限公司** V**PLICES SPITEMES CO.III** 

**	SOLD TO									1	Stanie, i			格·利 CENTER	發明書稿號 CENTENCACE NO.	., 8	8	SE009000	-	使机名 D N DSGR DATE		2002-04-42	8
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# **3M**

# **Laminating Adhesives Data Page**

FOD # 0330

# 3M<sup>™</sup> 467MP Roll Laminating Adhesive 468MP Roll Laminating Adhesive

#### **Product Construction**

<u>Adhesive</u> <u>Liner</u>

467MP 2.0 mils (50 microns) 4.0 mils (100 microns)

#200MP "Hi-Performance" 58# Tan Polycoated

Acrylic Adhesive Kraft Paper

468MP 5.0 mils (125 microns) 4.0 mils (100 microns)

#200MP "Hi-Performance" 58# Tan Polycoated

Acrylic Adhesive Kraft Paper

#### **Features**

- High performance solvent-free acrylic adhesive for exceptional environmental resistance and enhanced bond strength.
- Superior adhesive smoothness for improved clarity and reduced telegraphing through thin plastic facestocks.
- High cohesive strength for resistance to edge lifting and slippage.
- 2.0 mil 467MP is ideal for application to relatively smooth surfaces.
- 5.0 mil 468MP is ideal for application to a variety of rough or textured surfaces.
- Moisture stable liner resists curling or wrinkling in high humidity.
- 200MP Hi-Performance adhesive is initially repositionable, then builds to high ultimate bond strength.

# **Applications**

- Long term bonding of nameplates and decorative trim to metal and high surface energy plastics in the automotive, appliance and electronic markets.
- Excellent adhesive for bonding metal and plastic nameplates in the aerospace, instrumentation and medical markets.
- Used for lamination to back printed polycarbonate or polyester graphic overlay materials in the automotive, electronics and membrane switch markets.
- Used for lamination of wood veneers and plastic laminates to cabinetry and furniture.
- Used in the assembly of membrane switches, including spacers for circuit separation graphic overlay for switch display and bonding the complete switch to the application surface.

20 Min. Dwell

72 Hr. Dwell

# **Physical Properties**

(Typical values – not for specification use)

ASTM D-3330 (modified) 90 degree peel, 12"/min. (305 mm/min) 2 mil aluminum

	<b>Product</b>	Oz./In.	<u>N/100 mm</u>
- Metal (Stainless Steel)	467MP	44	48
	468MP	59	64
- High Surface Energy Plastic	467MP	40	44
(ABS)	468MP	52	57

3M Test (90 degree peel, 12"/min. 305 mm/min.) 2 mil aluminum to various surfaces

	<b>Product</b>	<u>Oz./In.</u> ]	<u>N/100 mm</u>	Oz./In.	<u>N/100 mm</u>
- Metal (Stainless Steel)	467MP	82	90	113	124
	468MP	109	119	178	194
- High Surface Energy Plastic	467MP	47	51	43	47
(ABS)	468MP	61	67	58	63

- Low Surface Energy Plastic (Polypropylene) Not Recommended

**Ultimate Bond** 

#### **Environmental Performance**

The properties defined are based on the attachment of impervious faceplate materials (such as aluminum) to an aluminum test surface.

Bond Build-up: The bond strength of #200MP "Hi-Performance" Acrylic Adhesive

increases as a function of time and temperature.

Humidity Resistance: High humidity has a minimal effect on adhesive performance. Bond

strengths are generally higher after exposure for 7 days at 90 degrees F

(32 degrees C) and 90% relative humidity.

U.V. Resistance: When properly applied, nameplates and decorative trim parts are not

adversely affected by outdoor exposure.

Water Resistance: Immersion in water has no appreciable effect on the bond strength. After

100 hours in room temperature water the bond actually shows an increase

in strength.

Temperature Cycling Bond strength generally increases after cycling four times through:

Resistance: 4 hours at 158 degrees F (70 degrees C)

4 hours at -20 degrees F (-29 degrees C)

16 hours at room temperature

Chemical Resistance: When properly applied, nameplate and decorative trim parts will hold

securely after exposure to numerous chemicals including gasoline, oil,

"Freon" TF, sodium chloride solution, mild acids and alkalis.

Low Service Temp: -40 degrees F (-40 degrees C).

Heat Resistance: The #200MP "Hi-Performance" adhesive is usable for short periods

(minutes, hours) at temperatures up to 400 degrees F (204 degrees C) and for intermittent longer periods of time (days, weeks) up to 300 degrees F

(149 degrees C).

Shelf Life: Product retains its performance and properties for two years from date of

manufacture if properly stored at room temperature conditions of 72 degrees F (22 degrees C) and 50% R.H. Storage in plastic bag is

recommended.

**Processing** 

Die-cutting: Excellent die-cuttability. For easier processing lubricate dies with

Laminoleum vanishing oil available from Metal Lubricants (708-333-8900).

Roll Laminating: Excellent processability. A combination of metal and rubber rollers with

moderate pressure is recommended.

# **Special Considerations/Application Tips**

For maximum bond strength the surface should be thoroughly cleaned and dried. Typical cleaning solvents are heptane or isopropyl alcohol. Consult solvent manufacturer's Material Safety Data Sheet for proper handling and storage instructions.

Bond strength can also be improved with firm application pressure and moderate heat causing the adhesive to develop intimate contact with the bonding surface.

Ideal adhesive application temperature range is 70 degrees F to 100 degrees F (21 degrees C to 38 degrees C). Application is not recommended if surface temperature is below 50 degrees F (10 degrees C) because the adhesive becomes too firm to adhere readily. Once properly applied, low temperature holding is satisfactory. For more specific information contact our Customer Service and Sales Support "hot line" at 1-800-223-7427.

2/15/96

**Terms and Conditions of Sale** for products sold by 3M Identification and Converter Systems Division can be found in the ICSD Price Book and in other appropriate schedules.

**Technical Data:** All physical properties, statements, and recommendations are either based on tests we believe to be reliable or our experience, but they are not guaranteed. 3M recommends each user determine the suitability of the products for the intended use.

Warranty and Limited Remedy: THE FOLLOWING WARRANTY IS MADE IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTY OF MERCHANTABILITY, THE IMPLIED WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE AND ANY IMPLIED WARRANTY ARISING OUT OF A COURSE OF DEALING, A CUSTOM OR USAGE OF TRADE: 3M warrants its product will be free from all defects.

If a product is proved to be defective, then the exclusive remedy 3M's and seller's sole obligation shall be, at 3M's option, to replace the quantity of the product which is proved to be defective or to refund the purchase price.

**Limitation of Liability:** 3M and seller shall not be liable for direct, indirect, special, incidental or consequential damages based breach of warranty, breach of contract, negligence, strict liability or any other legal theory.

The foregoing Warranty and Limited Remedy and Limitation of Liability may be changed only by a written agreement signed by authorized officers of 3M and seller.

Scotch, ScotchMark, ScotchCap, and Stamark are trademarks of 3M.



#### **Identification and Converter Systems Division**

3M Center, Building 220-7W-03 St. Paul, MN 55144-1000 USA 1 800 223 7427 1 800 258 7511 FAX e-mail idconvert@mmm.com

#### 3M Canada Inc.

PO Box 5757 London, Ontario Canada N6A 4TI 1 800 265 1840 519 452 6090 FAX

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# 3M Mexico, S.A. de C.V.

Apartado Postal 14-139 Mexico, D.F. 07070 Mexico 52 5 728 2289 52 5 728 2299 FAX

#### 3M Puerto Rico, Inc.

Puerto Rico Industrial Park PO Box 100 Carolina, PR 00986-0100 809 750 3000 809 750 3035 FAX

# 汎瑋企業有限公司



TRAN-SUN INTERNATIONAL COMPANY LTD

# Faxmessage

Number of pages:1

ATTN: E-mail: transsun@ms55.hinet.net

Phone: 886-4-23592471.23504239

Fax: 886-4-23592446

Tel No: 1F NO68.1RD TAICHUNG INDUSTRIAL PARK

Fax No: TAICHUNG, TAIWAN, R.O.C.

FROM: 莊仁颯 0932-621030

您好:

# 物性表

型  式	硬 質 P.V.C. 膠 布
規格	0. 15 - 0. 3 MM
色  澤	∵不透明 □ 透明 ∵霧面
比重	1.4± 3% 亩 含 □不含色料 (ASTM D-792-66)
拉力強度	350 - 450 KG/C m² (min) (ASTM D 638/882)
落球強度	2.5 - 5.0 1b-in/mil
伸長率	80 - 120 % (min) (ASTM D 638/882)
耐衝擊強度	3. 8 - 4. 8 KG CM C m² ( mì n) ASTM D 256-54T
熱變形強度	58 - 80 °C(min) (ASTM D 1637)
透明度	****** % ( mi n)
備註	1. 忌潮、溼氣、日曬!!
	2. 本測試僅提供參考(實驗室測試)



# JAS 0936-1

# **Test Report**

CHUNG YIN SPRING INDUSTRIAL CO., LTD.

36, ALLEY 42, CHUNG HSIN N. ST., SAN CHUNG

CITY, TAIPEI HSIEN, TAIWAN, R. O. C.

Report No. : CE/2004/73547

Date : 2004/08/03

Page : 1 of 1

The following merchandise was (were) submitted and identified by the client as :

Type of Product

: SAE1018-Ni

Sample Received
Testing Date

2004/07/27

: 2004/07/27 TO 2004/08/03

# Test Result

PART NAME NO.1

SILVER COLORED METAL

Test Item (s):	2	Method	MDL	Result					
	Unit			No.1					
Chromium VI (Cr+6)	ppm	As per US EPA 7196A and US EPA 3060A.	2 /	N.D.					
Cadmium (Cd)		ICP-AES after as per EN 1122, method B:2001 or other acid digestion.	2	N.D.		May a to a market of the	700 AV . EV	71000	
Mercury (Hg)	ppm	ICP-AES after as per US EPA 3052 or other acid digestion.	2	N.D.	o serreda.				
Lead (Pb)	ppm	ICP-AES after as per US EPA 3050B or other acid digestion.	2	27.3					

NOTE: (1) N.D. = Not detected (<MDL)

(2) ppm = mg/kg

(3) MDL = Method Detection Limit

Dentity on, M.R. Poperation Manager Signed for and on behalf of SGS TAWAN LTD.

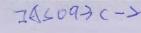
TW 0975158

SSS Telwen Ltd.

No. 136-1 Wu Kung Road, Wuku Industrial Zone, Taipai t (886-2) 2299-3939 f (886-2) 2299-

strial Zone, Taipai County, Taiwan. /台北縣五股工業區五工路136-1號 f (886-2) 2299-3237 www.tw.sgs.com

Momber of SSS Gree





CHUNG YIN SPRING INDUSTRIAL CO., LTD.

36, ALLEY 42, CHUNG HSIN N. ST., SAN CHUNG

CITY, TAIPEI HSIEN, TAIWAN, R. O. C.

Report No. : CE/2004/73545

: 2004/08/03 Date

Page : 1 of 1

The following merchandise was (were) submitted and identified by the client as:

Type of Product

SWC-Ni

Sample Received

: 2004/07/27

**Testing Date** 

: 2004/07/27 TO 2004/08/03

**Test Result** 

PART NAME NO.1

SILVER COLORED METAL SCREW

			Result					
Test Item (s):	Unit	Method	MDL	No.1				
Chromium VI (Cr+6)	ppm	As per US EPA 7196A and US EPA 3060A.	2	N.D.	Ž.			
Cadmium (Cd)		ICP-AES after as per EN 1122, method B:2001 or other acid digestion.	2	N.D.				
Mercury (Hg)		ICP-AES after as per US EPA 3052 or other acid digestion.	2	N.D.		17.15.3		
Lead (Pb)	ppm	ICP-AES after as per US EPA 3050B or other acid digestion.	2	40.3				

NOTE: (1) N.D. = Not detected (<MDL)

(2) ppm = mg/kg

(3) MDL = Method Detection Limit

TW 0975156

dustrial Zone, Taipai County, Taiwan. /台北縣五股工業區五工路136-1党 6(886-2) 2299-3237 www.tw.sgs.com \$88 Tehwan Ltd. No. 136-1 Wu Kung Road, Wisku In 台湾被被斜技股份有限公司 # (886-2) 2299-3939



CHUNG YIN SPRING INDUSTRIAL CO., LTD.

36, ALLEY 42, CHUNG HSIN N. ST., SAN CHUNG CITY,

TAIPEI HSIEN, TAIWAN, R. O. C.

Report No. : CE/2005/90302

: 2005/09/07 Date

Page : 1 of 1

## The following merchandise was (were) submitted and identified by the client as:

Type of Product S50C Ni Sample Received : 2005/08/31

: 2005/08/31 TO 2005/09/07 <u>Testing Date</u>

#### **Test Result**

PART NAME NO.1

: SILVER COLORED METAL

	Unit Method		NED I	Result No. 1	
Test Item (s):			MDL		
Chromium VI (Cr+6)	ppm	UV-VIS after reference to US EPA 3060A.	2	N.D.	
Cadmium (Cd)	ppm	ICP-AES after reference to EN 1122, method B:2001 or other acid digestion.	2	N.D.	
Mercury (Hg)	ppm	ICP-AES after reference to US EPA 3052 or other acid digestion.	2	N.D.	
Lead (Pb)	ppm	ICP-AES after reference to US EPA 3050B or other acid digestion.	2	N.D.	

NOTE: (1) N.D. = Not detected (<MDL)

(2) ppm = mg/kg

(3) MDL = Method Detection Limit

Operation Manager Signed for and on behalf of

SGS TAIWAN LTD.

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TEST REPORT NUMBER : THJ0013374

DATE : JAN 06, 2006

APPLICANT: TONG YU INDUSTRY CO., LTD

NO2-32 LANE 518 SEC 3 CHUNGSHAN RD

CHANGHUA CITY CHANGHUA COUNTY 500

TAIWAN R.O.C.

SAMPLE DESCRIPTION:

ONE (1) GROUP OF SUBMITTED SAMPLES SAID TO BE :

SAMPLE DESCRIPTION : JIS G3141 SERIES + ANODIZING BLACK

DATE SAMPLE RECEIVED : DEC 30, 2005 DATE TEST STARTED : DEC 30, 2005

\*

TESTS CONDUCTED:

PREPARED AND CHECKED BY: FOR INTERTEK TESTING SERVICES TAIWAN LIMITED



JACOB LIN GENERAL MANAGER



NUMBER : THJ0013374

TESTS CONDUCTED

#### (A) TEST RESULT SUMMARY:

TESTING ITEM	RESULT (ppm)
	SUBMITTED SAMPLES
CADMIUM (Cd) CONTENT	ND
LEAD (Pb) CONTENT	26
MERCURY (Hg) CONTENT	ND
CHROMIUM VI (Cr <sup>6+</sup> ) CONTENT	ND

REMARKS : ppm = PARTS PER MILLION

ND = NOT DETECTED

#### (B) TEST METHOD:

TESTING ITEM	TESTING METHOD	REPORTING LIMIT		
	WITH REFERENCE TO USEPA 3052, BY			
CADMIUM (Cd) CONTENT	MICROWAVE DIGESTION AND	2 ppm		
, ,	DETERMINED BY ICP-OES			
	WITH REFERENCE TO USEPA 3052, BY			
LEAD (Pb) CONTENT	MICROWAVE DIGESTION AND	2 ppm		
	DETERMINED BY ICP-OES			
	WITH REFERENCE TO USEPA 3052, BY			
MERCURY (Hg) CONTENT	MICROWAVE DIGESTION AND	2 ppm		
	DETERMINED BY ICP-OES			
	WITH REFERENCE TO USEPA 3060A &			
CHROMIUM VI (Cr <sup>6+</sup> ) CONTENT	7196A, BY ALKALINE DIGESTION AND	1 ppm		
	DETERMINED BY UV-VIS			

REMARK: REPORTING LIMIT = QUANTITATION LIMIT OF ANALYTE IN SAMPLE \* END OF REPORT

Page 2 of 3



3M TAIWAN LTD. Report No : CE/ 2004/ 32425

NO.66, LANE 800, CHUNG SHAN S. RD, YANGMEI, Date : 2004/03/19

TAOYUAN HSIEN, TAIWAN, R.O.C. Page : 1 of 2

The following merchandise was (were) submitted and identified by the client as:

Type of Product 3M HIGH PERFORMANCE ADHESIVE TRANSFER TAPE

Style/ Item No 3M 467MP Sample Received : 2004/03/17.

Testing Date 2004/03/17 TO 2004/03/19

Test Result : - Please see the next page -

> aned for and on behalf of SGS TAIWAN LTD.



3M TAIWAN LTD.

Report No : CE/ 2004/ 32425

NO.66, LANE 800, CHUNG SHAN S. RD, YANGMEI,

Date : 2004/03/19

TAOYUAN HSIEN, TAIWAN, R.O.C.

Page : 2 of 2

#### Test Result

PART NAME NO.1 : TRANSPARENT DOUBLE TAPE

					Result	t	
Test Item(s):	Unit	Method	MDL	NO.1			
Arsenic (As)	ppm	ICP-AES After As per US EPA 3052 or other acid digestion.	2	N.D.			
Barium (Ba)	ppm	ICP-AES After As per US EPA 3050B or other acid digestion.	2	14.3			
Cadmium (Cd)	ppm	ICP-AES After As per EN 1122, Method B:2001 or other acid digestion.	2	N.D.			
Chromium (Cr)	ppm	ICP-AES After As per US EPA 3050B or other acid digestion.	2	N.D.			
Mercury (Hg)	ppm	ICP-AES After As per US EPA 3052 or other acid digestion.	2	N.D.			
Lead (Pb)	ppm	ICP-AES After As per US EPA 3050B or other acid digestion.	2	N.D.			
Antimony (Sb)	ppm	ICP-AES After As per US EPA 3050B or other acid digestion.	2	N.D.			
Selenium (Se)	ppm	ICP-AES After As per US EPA 3052 or other acid digestion.	2	N.D.			

NOTE: (1) N.D. = Not detected.(<MDL)

- (2) ppm = mg/kg
- (3) MDL= Method Detection Limit
- (4) " --- " = Not Applicable
- (5) " -" = Not Regulation
- (6) \* = Results shown are of the adjusted analytical results.
- (7) \*\*= Qualitative analysis (No Unit)
- (8) Negative = Undetectable / Positive = Detectable.

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Ø 001/003

Test Report

To. 李品樣小吧

From: = Pit

报告號碼 : CE/2005/62168A

日期 : 2005/06/16

: 1 of 4

## 以下到試際品乃供應應商所提供及確認:

統品名稱

PVC硬質腦布

收件日射

2005/06/09.

型試口期

2005/06/09 TO 2005/06/16

测試岩果

: - 請見下一貫 -

Signed for end on behalf of SES TARWAN LTD.

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100 Type Man (Line Page 1) 129-329 中央 (Target Dayler Dayler 1) 200-100 (MRE A 1) 129-329 中央 (MRE A 1) 129-329 中央

BOUSTTE 20.

**四一時後後回版: 2009 2: 1 : 1-1-9 -58** 

To \$00 元 1.40.

From 報告振篇: CE/2005/62169A
□第 : 2005/06/16
□第 : 2 of 4

: 2 of 4

图式部位 NO.T

透明显显片(始急州附件图片)

测纯项目:	型位	西文章	位到在配位	結果
一次等苯	1 2			NO.T
二次研章	9	較 2002/95/EC (RoHS), B3/264/EEC, 76/7円9/EEC)	0,0005	N.O.
三溴酚盐	1 3		0.0005	N.D.
四溴磷苯	1 4		0.0005	N.D.
<b>工</b>	1 1		0,0005	N.D.
六俣将苯	-		0.0005	N.D.
七块事本	- ×		0.0005	N.D.
八孫周宏	1		0.0005	N.D.
九层縣苯	2		0.0005	N D.
十烷哪定	*		0.0005	N.U.
等多沒有本(PBBs)/以上参	×		0.0005	N.D.
一只师龙雕	8			
其哪里到	8	1	0.0005	N,D.
沒等学配	*		0.0005	N.D.
探察革務	Š	本则成金号USEPA3540C 或	0.0005	N.D.
復降金融	- 4	USEPA3550C方法·以気相層新徒/宣	0.0005	N.D
识梅苯亚	*	弱氓(GC/MS)或高效验相周标选/一 L	0.0005	N.D.
優勝幸強	-	函型四列值例第/查詢監	0 0005	N.O.
<b>没听</b> 幸难		(MPLC/DAD/MS)检测之(稳分除的统一	0.0005	N.D.
復騎苯醚		8 2002/95/EC (RoHS), 3/264/EEC, 76/769/FEC)	0.0005	МП
免群幸呕	* 1		0.0005	N.D.
多現場末壁 Bigs:/PBDEs)/以上國和	*		0.0005	N.D.

The contant of this PQT Re is in secondaries with the original interior reports for reference only. This Task Report for reference only. This Task Report for reference only. This Task Report for reference of the Company

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From: 3/72 7 \$

Test Report

帮告號碼; CE/200! 月期 : ₹2005/CP 頁取 ₹3 0f 4

別試項目:	平位	测試方法	值到製配值	全界 20.1
六價吳	bew	依照US EPA 1080A方法. 用UV-VISAE 分析	2 .	N.D.
99	ppm	依照 EM122 万法8:2001 载其他胜 得化方法,用感应联合电缆原于强射 光路像(IDP-ALS) 做分析	2	O.W
汞	bba	使知 US EPA 3052 方法或实他医清 化方法,用癌應期含岩级原子鉴射光 活卷(ICP-AES) 散分析	2.	מ. וע
発	bían	使無 US EPA 3050R 方法或其他政 消化方法,用癌肠漏合使暖原子强射 光譜堡(10P-RE)做分析	2	W.D.

俗註: (1) N.D. = Not detected. (<NDL) / 未检出(低於伯測揮降值)

- (2) ppm = mg/kg / 百两分之一
- (3) MUL= Method Detection Limit(信測被限位)
- (4) " -" = Not Regulation / 無規裕值



藝祺有限公司 報告號碼: CE/2005/95071

彰化縣埔鹽鄉彰水路一段107號 日期 : 2005/09/30

頁數 : 1 of 2

### 以下測試樣品乃供應廠商所提供及確認:

樣品名稱 : SAE1215 SERIES

收件日期 : 2005/09/23.

測試日期 : 2005/09/23 TO 2005/09/30

\_\_\_\_\_

#### 測試結果

測試部位 NO.1

: 鐵灰色金屬(請參照附件圖片)

測試項目:	單位	測試方法	<b>偵測極限値</b>	結果
/ / / / / / / / / / / / / / / / / / /	平位	例畝万法	很例極於個	NO.1
六價鉻	ppm	依照US EPA 3060A方法,用UV-VIS 做分析	2	N.D.
编	ppm	依照 EN1122 方法B:2001或其他酸消化方法,用感應藕合電漿原子發射光譜儀(ICP-AES)做分析	2	N.D.
汞	ppm	依照 US EPA 3052 方法或其他酸消化方法,用感應藕合電漿原子發射光譜儀(ICP-AES)做分析	2	N.D.
鉛	ppm	依照 US EPA 3050B 方法或其他酸消化方法,用感應藕合電漿原子發射光譜儀(ICP-AES)做分析	2	15.3

備註:(1) N.D. = Not detected.(<MDL) / 未檢出(低於偵測極限值)

(2) ppm = mg/kg / 百萬分之一

(3) MDL= Method Detection Limit(偵測極限值)

Signed for and on behalf of

SGS TAIWAN LTD.



藝祺有限公司 彰化縣埔鹽鄉彰水路一段107號 報告號碼 : CE/2005/95071

日期 : 2005/09/30

頁數 : 2 of 2



## **SC102**

#### **HEAT-TRANSFER COMPOUND**

SC102 heat-transfer compound is a grease like silicone material heavily filled with heat-conductive metal oxide.

SC102 heat-transfer compound is an improved product that can be used in touch with silicone JCR, where most of silicone heat-transfer compounds cause swelling of JCR. SC102 also shows excellent heat conductivity as well very little oil bleed. SC102 has rather high consistency and it is easy to handle and can be used in many appliances.

### **Properties of SC102**

Properties	Unit	SC102
Consistency, penetration un-worked		300
Oil bleed (120°C / 24hrs)	%	0.00
Specific Gravity		2.45
Thermal Conductivity	Cal / cm' sec. C	0.0019
Arc Resistance	sec.	123
Dielectric Constant 60 Hz		4.6
1000 Hz		4.4
Dissipation Factor 60 HZ		0.034
1000 HZ		0.024
Volume Resistivity	ohm' cm	$4.8 \times 10^{14}$
Dielectric Strength	kV / 2.5mm	22

### Properties of SC102 in comparison with SH340

Properties	SC102	SH340 <sup>a</sup> )	
Swelling of Silicone JCR b)	0.9%	2.00/	
Volume increase	0.9%	3.0%	
Oil bleed on alminum plate	Nana	الم مرس مرسا	
120°C / 24hrs	None	observed	
Appearance after heating	No shange	No oboves	
150°C / 24hrs	No change	No change	

- a) Conventional silicone heat-transfer compound
- b) Cured silicone JCR (SH6101) was immersed in heat-transfer compound at 120°C for 120hrs.

### **Dow Corning Toray Silicone Co., Ltd.**

AIG Bldg. 1-3, Marunouchi 1-chome, chiyoda-ku Tokyo 100-0005, Japan

TEL: 03-3287 8300

**IMPORTANT NOTICE**: Dow Corning Toray Silicone neither represents nor tests this material for medical device applications or for pharmaceutical end-use. **NOT FOR HUMAN INJECTION!** 

This product is made to industrial grade standards. It is not intended for nor should it be used in medical device applications and pharmaceutical end-use.



SIL-MORE INDUSTRIAL LTD.

Report No. : CE/2005/81840

16F, NO. 100, HSIN TEH ROAD, SAN CHUNG CITY,

: 2005/08/15

TAIPEI COUNTY, TAIWAN, R. O. C.

Page : 1 of 4

Date

### The following merchandise was (were) submitted and identified by the client as:

Type of Product : DOW CORNING TORAY SC102 HEAT SINK COMPOUND

Sample Received : 2005/08/09

<u>Testing Date</u> : 2005/08/09 TO 2005/08/15

\_\_\_\_\_

<u>Test Result</u>: - Please see the next page -

Daniel Yeh, M.R. Poperation Manager Signed for and on behalf of

SGS TAIWAN LTD.



SIL-MORE INDUSTRIAL LTD. 16F, NO. 100, HSIN TEH ROAD, SAN CHUNG CITY,

TAIPEI COUNTY, TAIWAN, R. O. C.

Report No. : CE/2005/81840

Date : 2005/08/15

Page : 2 of 4

### **Test Result**

PART NAME NO.1

WHITE COLLOID (PLEASE REFER TO THE PHOTO ATTACHED)

774 I4 (-).	TT \$4	707 - 411	MDL	Result
Test Item (s):	Unit	Method	MIDE	No.1
Monobromobiphenyl	%		0.0005	N.D.
Dibromobiphenyl	%	With reference to USEPA3540C or USEPA3550C. Analysis was	0.0005	N.D.
Tribromobiphenyl	%		0.0005	N.D.
Tetrabromobiphenyl	%		0.0005	N.D.
Pentabromobiphenyl	%		0.0005	N.D.
Hexabromobiphenyl	%		0.0005	N.D.
Heptabromobiphenyl	%		0.0005	N.D.
Octabromobiphenyl	%	(prohibited by 2002/95/EC	0.0005	N.D.
Nonabromobiphenyl	%	(RoHS), 83/264/EEC, and 76/769/EEC)	0.0005	N.D.
Decabromobiphenyl	%		0.0005	N.D.
Total	%	1	-	N.D.
PBBs(Polybrominated biphenyls)/Sum of above				
Monobromobiphenyl ether	%		0.0005	N.D.
Dibromobiphenyl ether	%	]	0.0005	N.D.
Tribromobiphenyl ether	%	]	0.0005	N.D.
Tetrabromobiphenyl ether	%	With reference to	0.0005	N.D.
Pentabromobiphenyl ether	%	USEPA3540C or	0.0005	N.D.
Hexabromobiphenyl ether	%	USEPA3550C. Analysis was	0.0005	N.D.
Heptabromobiphenyl ether	%	performed by HPLC/DAD,	0.0005	N.D.
Octabromobiphenyl ether	%	LC/MS or GC/MS.	0.0005	N.D.
Nonabromobiphenyl ether	%	(prohibited by 2002/95/EC (RoHS), 83/264/EEC, and	0.0005	N.D.
Decabromobiphenyl ether	%	(RoHS), 83/264/EEC, and	0.0005	N.D.
Total PBBEs(PBDEs)(Polybromin ated biphenyl ethers)/Sum of above	%	, , ,	-	N.D.

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16F, NO. 100, HSIN TEH ROAD, SAN CHUNG CITY,

TAIPEI COUNTY, TAIWAN, R.O.C.

Report No. : CE/2005/81840

Date : 2005/08/15

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(Daniel TA a market)	TT 14	77 -41 - 1	MDI	Result
Test Item (s):	Unit	Method	MDL	No.1
Chromium VI (Cr+6)	ppm	UV-VIS after reference to US EPA 3060A.	2	N.D.
Cadmium (Cd)	ppm	ICP-AES after reference to EN 1122, method B:2001 or other acid digestion.	2	N.D.
Mercury (Hg)	ppm	ICP-AES after reference to US EPA 3052 or other acid digestion.	2	N.D.
Lead (Pb)	ppm	ICP-AES after reference to US EPA 3050B or other acid digestion.	2	N.D.

NOTE: (1) N.D. = Not detected (<MDL)

(2) ppm = mg/kg

(3) MDL = Method Detection Limit

(4) " - " = No Regulation



SIL-MORE INDUSTRIAL LTD. 16F, NO. 100, HSIN TEH ROAD, SAN CHUNG CITY, TAIPEI COUNTY, TAIWAN, R. O. C. Report No. : CE/2005/81840

Date : 2005/08/15 Page : 4 of 4

