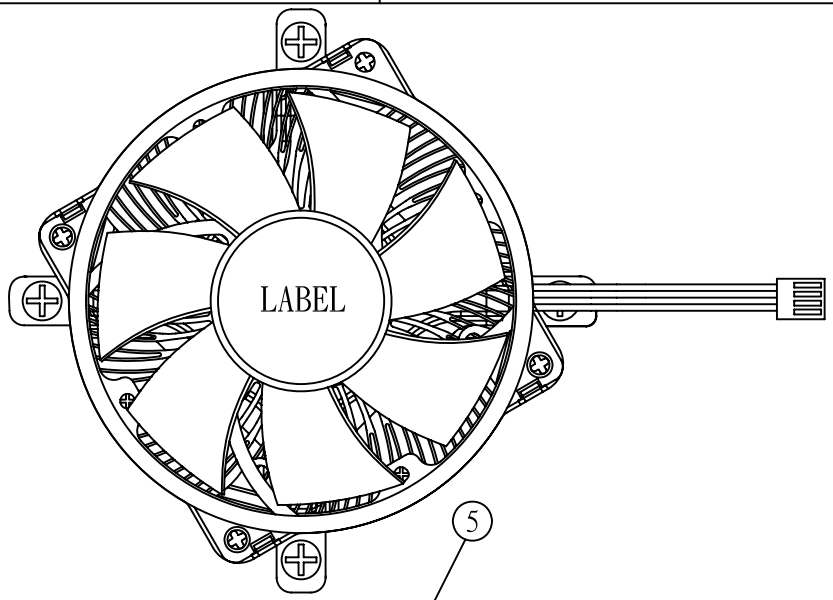
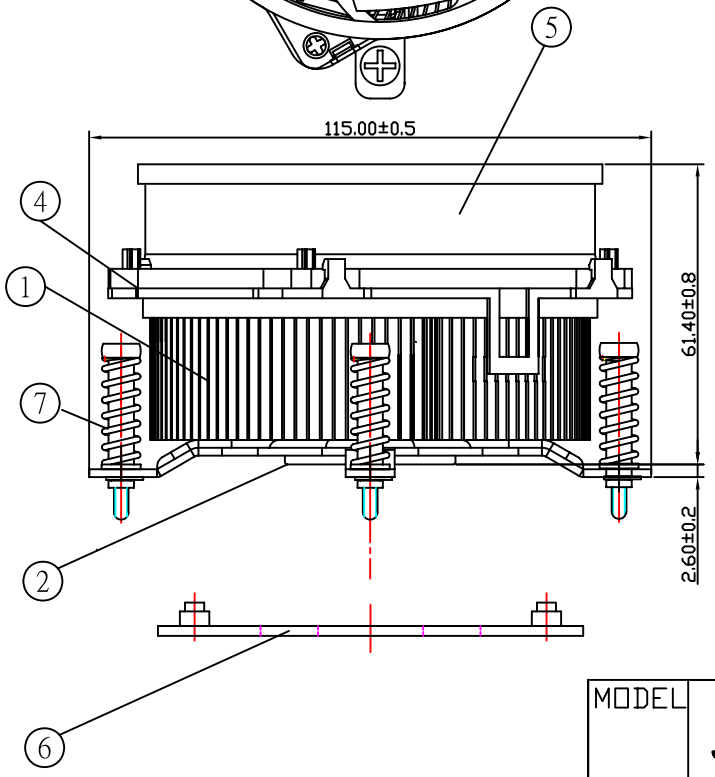
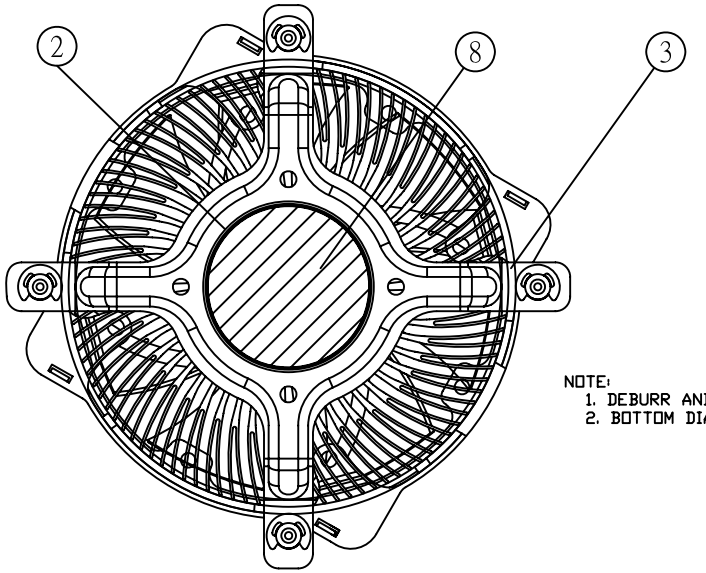
JZC822A-A

Application	INTEL LAG 775
Specification	
Weight	0.560kg
Dimension	115L×115W×61.4H (mm)
Heat sink	
Model	JZH22A
Material	AL6063 & Cu core
Fan	
Rate Voltage	12V
Rate Current	0.55A
Rate Speed	4500 RPM±10%

BILL OF MATERIAL			
1	HEATSINK	⌀90*28*104FIN	1
2	CU CORE	⌀35*33L	1
3	Bracket	115*115*7.6	1
4	Fan Cover	⌀95*6H	1
5	Fan	JAF909025H1:RoHS-FAN/4500RPM	1
6	BACK PLATE	JAT094; FOR LGA775	1
7	SPRING&SCREW	SAE1018-SWC(NIKEL)	4
8	GREASE	DOWCORNING SC102 (⌀33*0.25)	1







NOTE:
1. DEBURR AND BREAK ALL SHARP EDGES.
2. BOTTOM DIAGONAL FLATNESS < ±0.05 mm.

MODEL	JZC822A		NAME	COOLER				
DRN	John	12/11 2006	MATERIAL		REV.	DESCRIPTION	SIGN	DATE
DSN	Kathy	12/11 2006	FINISH					
CKD	Richard	12/11 2006	CHIA CHERNE INDUSTRY CO.,LTD		DIM IN	mm	DO NOT SCALE DWG	
APPD	Auric	12/11 2006			SHEET	1	OF	1
					DRAWING NO.	JZC822A		

SPECIFICATIONS

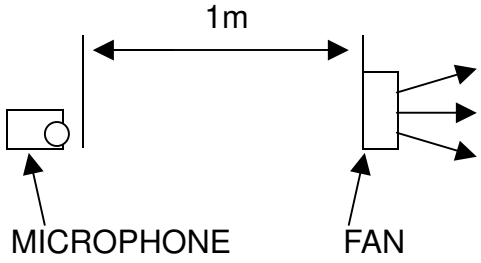
TYPE DC BRUSHLESS FAN	MODEL NO. F129025BU AF	PAGE: 1 OF 5

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

NO	ITEMS	STANDARD	REMARKS
2-1	RATED VOLTAGE	12 V DC	
2-2	OPERATING RANGE	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 2.18m^3/min DUTY CYCLE = 0%~20% 16.57CFM 0.47m^3/min	AT RATED VOLTAGE AT ZERO STATIC PRESSURE
2-7	STATIC PRESSURE	DUTY CYCLE =100% 8.30 mmH_2O DUTY CYCLE =0%~20% 0.40 mmH_2O	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 

	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

SPECIFICATIONS

TYPE DC BRUSHLESS FAN	MODEL NO. F129025BU AF	PAGE: 2 OF5

2-10	OPERATING TEMPERATURE	-10℃~70℃ (NORMAL HUMIDITY)	
2-11	STORAGE TEMPERATURE	-20℃~75℃ (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 FRAME AND (+) TERMINAL)
2-15	DIELECTRIC STRENGTH	MUST WITHSTAND 500 VAC 1min	MAX 1mA BETWEEN FRAME AND LEADS
2-16	PROTECTION	CURRENT LIMIT	
2-17	DROP TEST	IN MINIMUM PACKAGING CONDITION,FAN WITHSTANDS EACH ONE DROP OF THREE FACES FROM 30cm DISTANCE HEIGHT ON TO 10mm THICKNESS OF WOODEN BOARD.	
2-18	MECHANICAL SHOCK	TEMPERATURE : +25°c. ORIENTATION : X , Y , Z . POWER : NON-OPERATING. ACCELERATION : 20G MIN. PULSE : 11 MS HALF-SINE WAVE. NUMBER OF SHOCKS : 5 SHOCKS FOR EACH DIRECTION.	

NOTE 1. THE ABOVE STANDARD SHOULD BE THE SPECIFIED VALUE AT NORMAL TEMPERATURE (25℃) 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

SPECIFICATIONS

3.LIFE EXPECTANCE (MTBF)

MORE THAN 90% SHALL KEEP RUNNING AFTER CONTINUOUS OPERATION OF 50,000 HOURS AT RATED VOLTAGE IN 25℃ 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.

SPECIFICATIONS

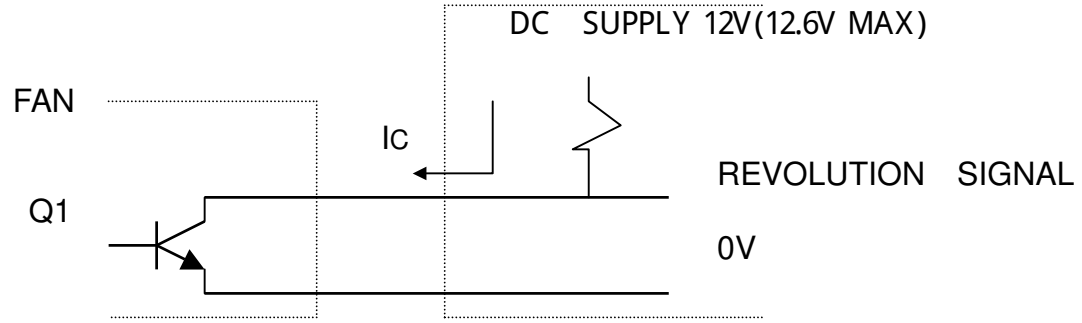
TYPE DC BRUSHLESS FAN	MODEL NO. F129025BU AF	PAGE: 4 OF 5

7. PROVISION OF REVOLUTION SIGNAL

7-1 OUTPUT OF REVOLUTION SIGNAL

.OUTPUT TYPE — OPEN COLLECTOR TYPE

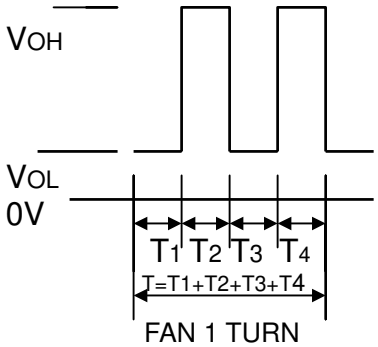
.ELECTRICAL SPECIFICATION



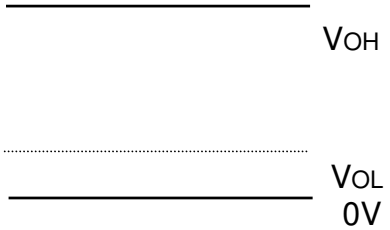
TRANSISTOR Q1 AT "ON" POSITION
COLLECTOR CURRENT — I_C = 10 mA MAX.
SATURATION VOLTAGE BETWEEN COLLECTOR AND EMITTER AT I_C =10mA MAX. — V_{OL}= 0.5V MAX.
TRANSISTOR Q1 AT "OFF" POSITION
RELEASE VOLTAGE — V_{OH} = 12V(12.6V MAX)

7-2 OUTPUT WAVEFORM — (ACCORDING TO INPUT VOT.)

(AT REVOLUTION)



(AT LOCKED POSITION)



REMARK: AT LOCKED POSITION, OUTPUT BECOMES V_{OH} OR V_{OL}

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

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

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

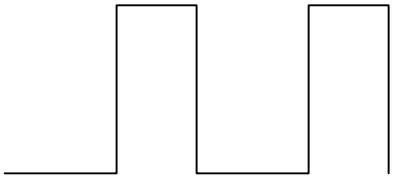
SPECIFICATIONS

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

7-3 PWM CONTROL INPUT SIGNAL:

MAXIMUM VOLTAGE FOR LOGIC LOW:MAX VIL ≦ 0.8VDC

MINIMUM VOLTAGE FOR LOGIC HIGH:MIN VIH ≧ 2.0VDC



---------- VIH MIN ≧ 2.0VDC

----------VIL MAX ≦ 0.8VDC

	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

SPECIFICATIONS

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.

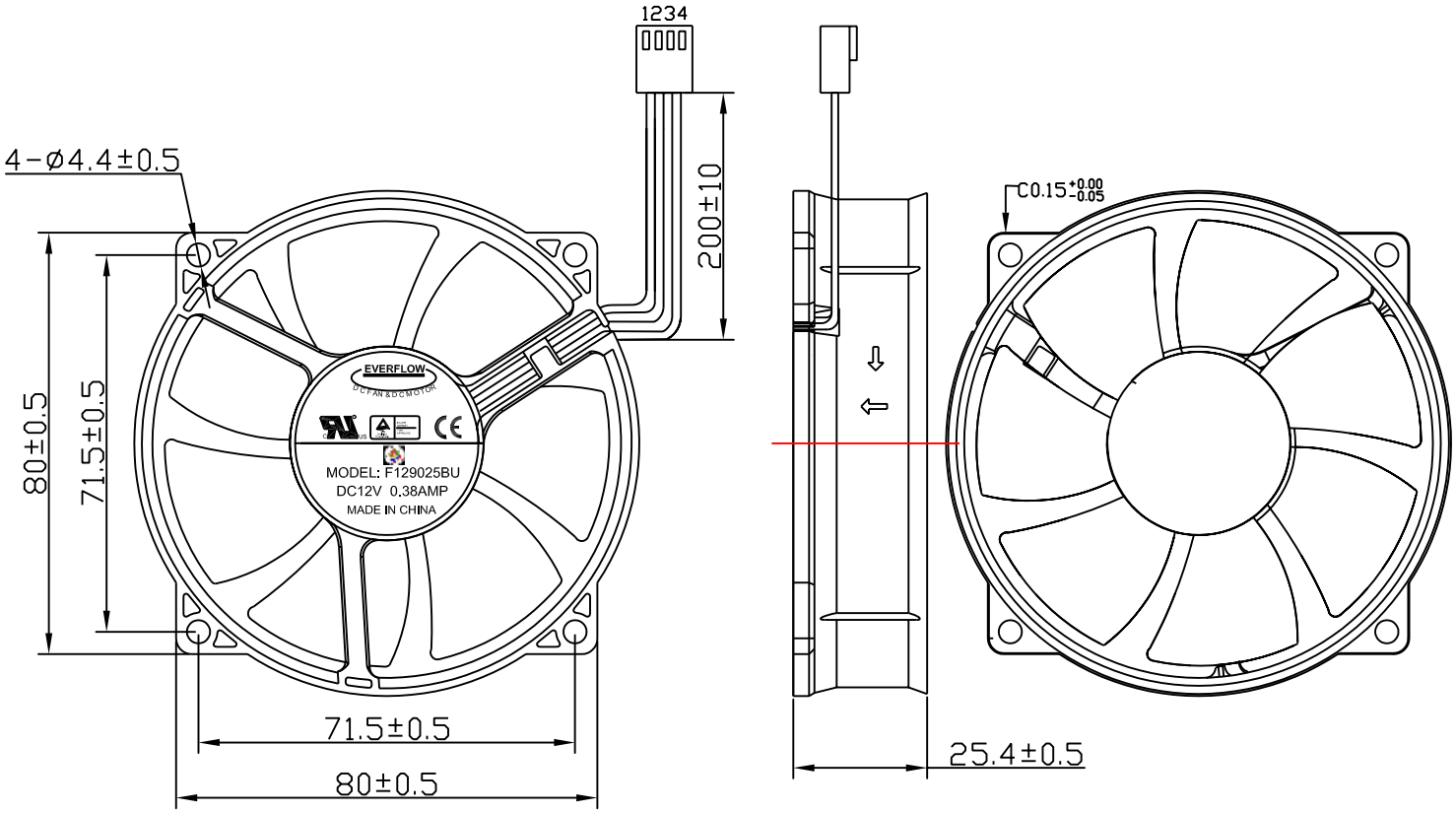
3. In order to improve the performance within the scope of specification, parts or material changes are subject to prior notice to customer.

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

REVISES	A



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

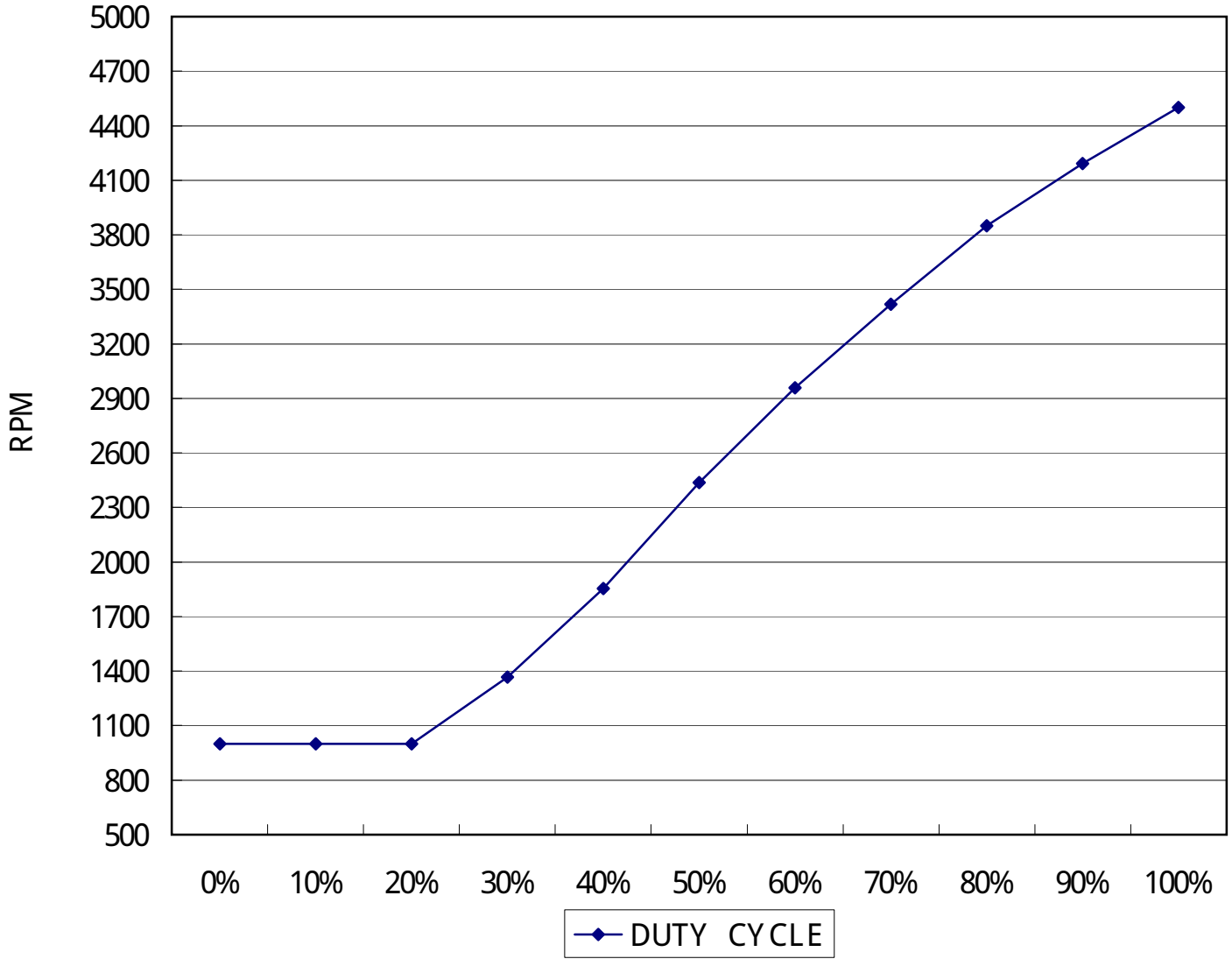
TRCANGLE METHOD	UNIT: mm			MODEL NO.	F129025BUAF6A5bR
APPROVE	LIU CHUN XIANG	2006/07/11		PART NAME	DC FAN
CHECK	LIANG HAI HU	2006/07/11	N		
DRAWING	HAI YING YANG	2006/07/11		DRAWING NAME	OUTLINE
EVERFLOW PRECISION ELECTRON CO. ,LTD.			CODE	HT-001	PAGE: 1

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

DUTY CYCLE CURVE CHART

(F=25KHZ V=5V(5.25max) Duty cycle: 0~100%)



APPROVAL:LIU CHUN XIANG CHECK:LIANG HAI HU DESIGN:HAI YING YANG

Test Report

WHOLE WELL CO., LTD.
NO. 48, LANE 203 SEC 2, HSING-LONG ROAD, TAIPEI, TAIWAN.

Report No. : CE/2006/61679
Date : 2006/06/19

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

Type of Product	:	ON SEMICONDUCTOR SOT-23 PACKAGE
Style/Item No	:	SOT-23
Sample Received	:	2006/6/6
Testing Date	:	2006/6/6 TO 2006/06/19

==========

Test Result

PART NAME NO.1 : MIXED ALL PARTS

Test Item (s):	Unit	Method	MDL	Result
				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.

Test Report

WHOLE WELL CO., LTD.
NO. 48, LANE 203 SEC 2, HSING-LONG ROAD, TAIPEI, TAIWAN.

Report No. : CE/2006/61679
Date : 2006/06/19

Test Report

SANYO SEMICONDUCTOR TAIPEI CO., LTD.
116 6F., NO. 101, SONGREN RD., SINYI DISTRICT, TAIPEI CITY 110, TAIWAN

Report No. : CE/2006/80268
Date : 2006/08/08
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 Yeh, M.R. / Operation Manager
Signed for and on behalf of
SGS TAIWAN LTD.

Test Report

SANYO SEMICONDUCTOR TAIPEI CO., LTD.
116 6F., NO. 101, SONGREN RD., SINYI DISTRICT, TAIPEI CITY 110, TAIWAN

Report No. : CE/2006/80268
Date : 2006/08/08

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

Test Report

SANYO SEMICONDUCTOR TAIPEI CO., LTD.
116 6F., NO. 101, SONGREN RD., SINYI DISTRICT, TAIPEI CITY 110, TAIWAN

Report No. : CE/2006/80268
Date : 2006/08/08

Test Item (s):	Unit	Method	MDL	Result	
				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^{+6} and PBBs/PBDEs.

Test Report

SANYO SEMICONDUCTOR TAIPEI CO., LTD.
116 6F., NO. 101, SONGREN RD., SINYI DISTRICT, TAIPEI CITY 110, TAIWAN

Report No. : CE/2006/80268
Date : 2006/08/08

** End of Report **

鑫宇技術部

SGS

Test Report

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 : 1 of 2

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	:	ΦSK5, SK7
Buyer/Order No	:	TSUEN JYI ENTERPRISE 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

Test Item (s):	Unit	Method	MDL	Result No.1	Limit of 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 B: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

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

SGS

Test Report

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

SELL

SGS

CC

Test Report

No.: GZ060302319B/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 COMPANY 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 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 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 – 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.

Zhang Li, Amy
Sr. Engineer

SGS-CSTC Standards Technical Services Co., Ltd. | 198 KEZHU Road, SCIENTECH Park Guangzhou Economic & Technology Development District, Guangzhou, China 510663 | t (86-20)82155555 f (86-20)82075110 | www.cn.sgs.com

SGS

Test Report

No.: GZ06030231 98/CHEM Date: MAR 08, 2006

Results :

(1)

	Lt-gray metal sheet
Lead Content (Pb)(ppm)	4
Cadmium Content (Cd)	N.D.
Mercury Content (Hg)	N.D.

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

(2)

	Lt-gray metal sheet
Hexavalent Chromium Content [Cr(VI)]	Negative

Note : - Negative means the concentration of Hexavalent Chromium extracted from 50cm^2 sample is less than the detection limit.
- Detection limit of Cr(VI) in solution = 0.02 mg/kg Cr(VI) extracted from 50cm^2 sample surface area by boiling-water-extraction method

(3)

	Lt-gray metal 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
Decabromodiphenyl ether	ND

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

*** End of Report ***

SGS-CSTC Standards Technical Services Co., Ltd. | 198 KEZHU Road, SCIENTECH Park Guangzhou Economic & Technology Development District, Guangzhou, China 510663 | t (86-20)82155555 f (86-20)82075113 | www.cn.sgs.com

SGS

Test Report

No.: GZ06020142292/CHEM Date: FEB 21, 2006 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

SGS Ref No.	SZ060204569RS
Main Substance	[illegible]
Sample Receiving Date	: FEB 15, 2006
Testing Period	: FEB 15, 2006 TO FEB 21, 2006

Test 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 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.
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

SGS-CSTC Guangzhou Economic & Technology Development District, Guangzhou, China 510663 t (86-20)82155555 f (86-20)82075113 www.cn.sgs.com
中国·广州·经济技术开发区科学城科珠路198号 邮编: 510663 t (86-20)82155555 f (86-20)82075113 e sgs.china@sgs.com
Member of SGS Group (Société Générale de Surveillance)

SGS

Test Report No. GZ0602014292/CHEM Date. FEB 21, 2006

Results

(1)

	Coppery metal wire
Lead Content (Pb)	3
Cadmium Content (Cd)	N.D.
Mercury Content (Hg)	N.D.

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

(2)

	Coppery metal wire
Hexavalent Chromium [Cr(VI)]	Negative

Note : - Negative means the concentration of Hexavalent Chromium extracted from 50cm^2 sample is less than the detection limit.
- Detection limit of Cr(VI) in solution = 0.02 mg/kg Cr(VI) extracted from 50cm^2 sample surface area by boiling-water-extraction method

(3)

	Coppery metal wire
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

*** End of Report ***

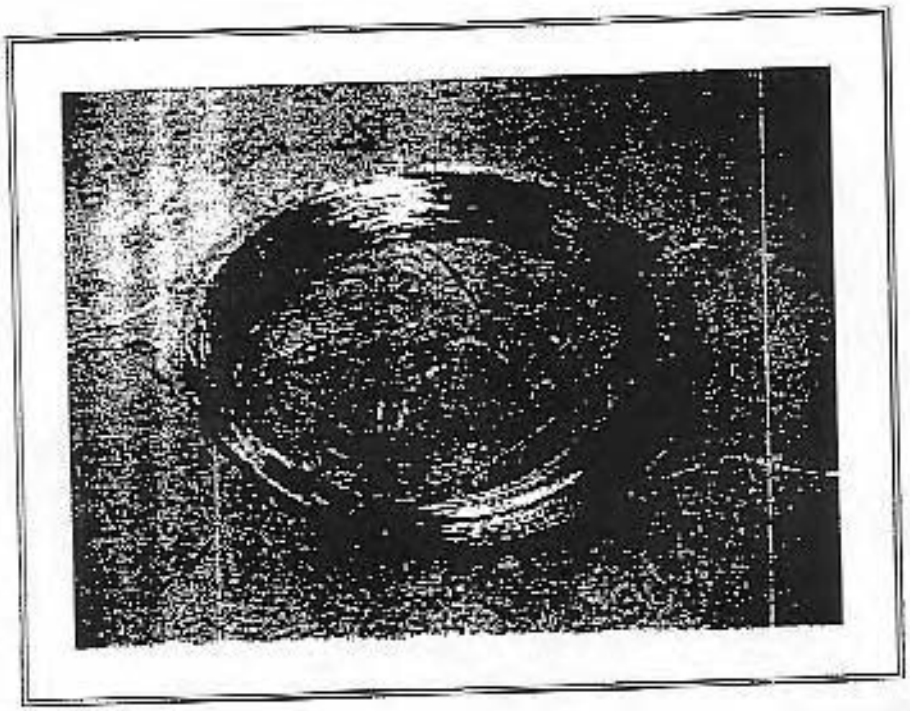
SGS

GZCM 465606

SGS

Test Report No: GZ0602014292/CHEM Date: FEB 21, 2006 Page 1 of 1

PHOTO APPENDIX



SGS authenticate the photo on original report only

Signed for and on behalf of
SGS-CSTC Ltd.

Huang Fang, Sunny
Sr. Engineer

GZCM 465256

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

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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 : 1 of 4

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 : - Please see the next page -

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

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

SGS

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

Test Result

PART NAME NO.1 : SILVER/BRIGHT SILVER COLORED PLASTIC FILM(CV/2006/30125)

PART NAME NO.2 : TRANSPARENT GLUE(CE/2006/24996)

Test Item (s):	Unit	Method	MDL	Result	
				No.1	No.2
Monobromobiphenyl	%	With reference to USEPA3540C or USEPA3550C. Analysis was performed by HPLC/DAD, LC/MS or GC/MS. (prohibited by 2002/95/EC (RoHS), 83/264/EEC, and 76/769/EEC)	0.0005	N.D.	N.D.
Dibromobiphenyl	%		0.0005	N.D.	N.D.
Tribromobiphenyl	%		0.0005	N.D.	N.D.
Tetrabromobiphenyl	%		0.0005	N.D.	N.D.
Pentabromobiphenyl	%		0.0005	N.D.	N.D.
Hexabromobiphenyl	%		0.0005	N.D.	N.D.
Heptabromobiphenyl	%		0.0005	N.D.	N.D.
Octabromobiphenyl	%		0.0005	N.D.	N.D.
Nonabromobiphenyl	%		0.0005	N.D.	N.D.
Decabromobiphenyl	%		0.0005	N.D.	N.D.
Total PBBs (Polybrominated biphenyls)/Sum of above	%		-	N.D.	N.D.
Monobromobiphenyl ether	%	With reference to USEPA3540C or USEPA3550C. Analysis was performed by HPLC/DAD, LC/MS or GC/MS. (prohibited by 2002/95/EC (RoHS), 83/264/EEC, and 76/769/EEC)	0.0005	N.D.	N.D.
Dibromobiphenyl ether	%		0.0005	N.D.	N.D.
Tribromobiphenyl ether	%		0.0005	N.D.	N.D.
Tetrabromobiphenyl ether	%		0.0005	N.D.	N.D.
Pentabromobiphenyl ether	%		0.0005	N.D.	N.D.
Hexabromobiphenyl ether	%		0.0005	N.D.	N.D.
Heptabromobiphenyl ether	%		0.0005	N.D.	N.D.
Octabromobiphenyl ether	%		0.0005	N.D.	N.D.
Nonabromobiphenyl ether	%		0.0005	N.D.	N.D.
Decabromobiphenyl ether	%		0.0005	N.D.	N.D.
Total PBBEs(PBDEs) (Polybrominated biphenyl ethers)/Sum of above	%		-	N.D.	N.D.
Total of Mono to Nona-brominated biphenyl ether. (Note 5)	%		-	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
Date : 2006/04/06

Test Item (s):	Unit	Method	MDL	Result	
				No.1	No.2
Chromium VI (Cr+6)	ppm	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
(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) PBBEs=PBDEs=Polybrominated Diphenyl Ethers=PBDOs=PBBOs.

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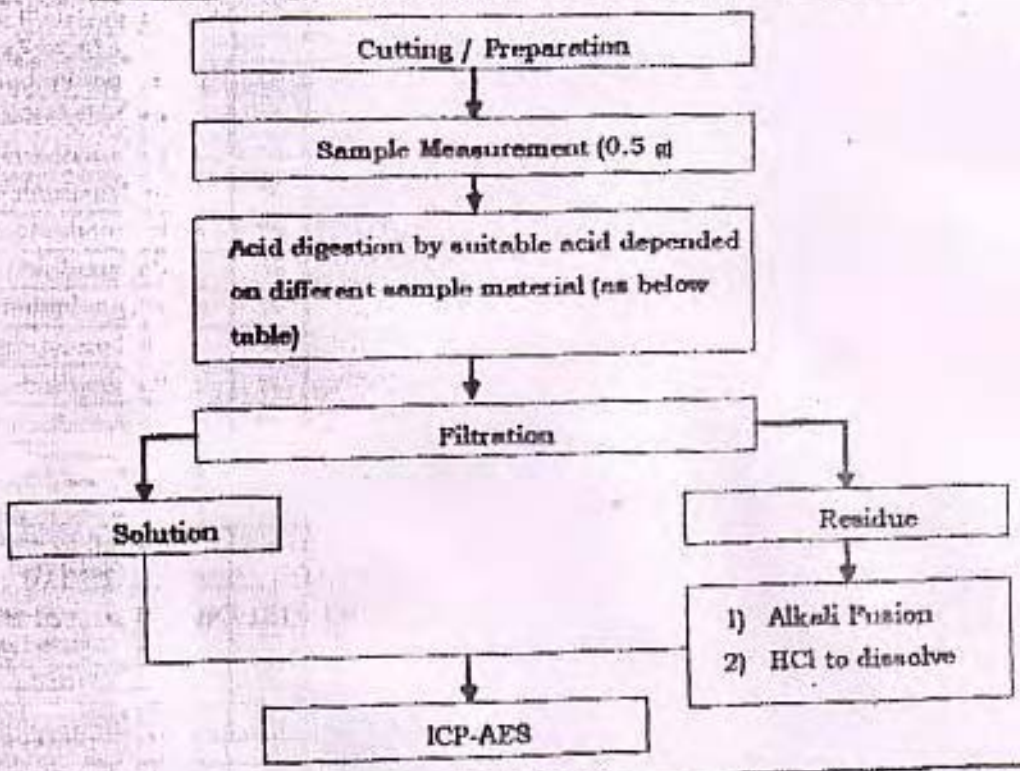
Survey Report

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

1) These samples were dissolved totally by pre-conditioning method according to below flow chart.
2) Name of the person who made measurement: Anrea Lee
3) Name of the person in charge of measurement: Daniel Yeh

Method 1: Flow Chart of Digestion for heavy metal analysis



Steel, copper, aluminum, solder	Agua regia, HNO_3, HCl, HF, H_2O_2
Glass	HNO_3/HF
Gold, platinum, palladium, ceramic	Aqua regia
Silver	HNO_3
Plastic	H_2SO_4, H_2O_2, HNO_3, HCl
Others	Any acid to total digestion

镀锡铜线

SGS

Test Report No.: GZ0605070392/CHEM Date: MAY 23, 2006 Page 1 of 2

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

Report on the submitted sample said to be BARE COPPER WIRE (裸铜线)

SGS Ref No.	: SZ060523401RS-5.1
Sample Receiving Date	: MAY 17, 2006
Testing Period	: MAY 17, 2006 TO MAY 23, 2006

Test 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.

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.
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)

Results : Please refer to next page

Signed for and on behalf of
SGS-CSTC Ltd.

Zhang Li, Amy
Gr. Engineer

SGS

Test Report

No.: GZ06050702392/CHEM Date: MAY 23, 2006

Results :

(1)	Coppery metal wire
Lead Content (Pb)	N.D.
Cadmium Content (Cd)	N.D.
Mercury Content (Hg)	N.D.

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

(2)	Coppery metal wire
Hexavalent Chromium Content (Cr(VI))	Negative

Note : - Negative means the concentration of Hexavalent Chromium extracted from 50cm^2 sample is less than the detection limit.
- Detection limit of Cr(VI) in solution = 0.02 mg/kg Cr(VI) extracted from 50cm^2 sample surface area by boiling-water-extraction method

*** End of Report ***

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TEST REPORT

REPORT NO.KA/2006/51581
DATE: 2006/6/28
PAGE: 1 OF 1

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

CLIENT	: EVER CONNECTOR INDUSTRIAL CO.,LTD.
PRODUCT DESCRIPTION	: TERMINAL (PHOSPHOR BRONZE).
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 OBTAINED:

TEST ITEM(S)	UNIT	METHOD	MDL	RESULT
Cadmium (Cd)	ppm	ICP-AES after reference to EN 1122 :2001 or other acid digestion.	2	n.d.
Chromium VI (Cr+6)	ppm	UV-VIS(US EPA 7196A) after reference to 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 3050B or other acid digestion.	2	22.8
PBBs(Polybrominated biphenyls)	---	---	---	---
Monobromobiphenyl	%	With reference to USEPA3540C or USEPA3550C, Analysis was performed by HPLC/DAD, LC/MS or GC/MS. (prohibited by 2002/95/EC (RoHS), 83/264/EEC, and 76/769/EEC)	0.0005	n.d.
Dibromobiphenyl	%		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	%		0.0005	n.d.
Nonabromobiphenyl	%		0.0005	n.d.
Decabromobiphenyl	%		0.0005	n.d.
PBDEs(Polybrominated biphenyl ethers)	---	---	---	---
Monobromobiphenyl ether	%	With reference to USEPA3540C or USEPA3550C. Analysis was performed by HPLC/DAD, LC/MS or GC/MS. (prohibited by 2002/95/EC (RoHS), 83/264/EEC, and 76/769/EEC)	0.0005	n.d.
Dibromobiphenyl ether	%		0.0005	n.d.
Tribromobiphenyl ether	%		0.0005	n.d.
Tetrabromobiphenyl ether	%		0.0005	n.d.
Pentabromobiphenyl ether	%		0.0005	n.d.
Hexabromobiphenyl ether	%		0.0005	n.d.
Heptabromobiphenyl ether	%		0.0005	n.d.
Octabromobiphenyl ether	%		0.0005	n.d.
Nonabromobiphenyl ether	%		0.0005	n.d.
Decabromobiphenyl ether	%		0.0005	n.d.

NOTE: (1) n.d. = not detected
(2) ppm = mg/kg
(3) MDL = Method Detection Limit
(4) Any unauthorized alteration, forgery or falsification of the content or appearance of this report is unlawful and offenders may be prosecuted to the fullest extent of the law.

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

TW 2625430

Integration Report

Report No.:SZR06040511555 Date:Apr. 20, 2006 Page 1 of 4

Client : 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 RoHS Directive.

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

Integration Report

电线

No.	Component	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		
	1	2	3
Lead	N.D.	N.D.	3ppm
Mercury	N.D.	N.D.	N.D.
Cadmium	N.D.	N.D.	N.D.
Hexavalent Chromium	N.D.	N.D.	N.D.
Chromium	/	N.D.	/

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

Integration Report

Test Results:

Organic Compounds

Polybrominated Biphenyls(PBBs)

Compounds	Contents	
	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.

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

Integration Report

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 Jaily Cao

Inspected by Position Manager

Date Apr. 20, 2006

CTI Physical & Chemical Lab.

5F., Huaqiang logistics, Longzhu Road, Nanshan, Shenzhen, China
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Tel:86-755-29799666 Fax:86-755-29799699
E-mail:info@cti-cert.com http://www.cti-cert.com

SGS

[illegible]PVC

Test Report

No. 2049989/EC Date : Jan 17 2006

HUISHENG PLASTICS (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 GREEN PVC.

SGS Job No.	:	1960392
SGS Ref. No.	:	SZECO060100910RS-3.2
Sample Receiving Date	:	JAN 10 2006
Testing Period	:	JAN 10 - 16 2006

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

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) Determination of PBBs (polybrominated biphenyls), PBDEs (Polybrominated diphenylethers) of the submitted sample.

Test Method :

1) With reference to BS EN 1122:2001, Method B, analysis was performed by Inductively Coupled Argon Plasma-Atomic Emission Spectrometry (ICP-AES).
2) With reference to EPA Method 3050B/ 3051/ 3052. Analysis was performed by Inductively Coupled Argon Plasma-Atomic Emission Spectrometry (ICP-AES).
3) With reference to EPA Method 3051/ 3052. Analysis was performed by Inductively Coupled Argon Plasma-Atomic Emission Spectrometry (ICP-AES).
4) 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).
5) 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.

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 Hong Kong Ltd

Wan Chi Wai, Leo
Technical Manager

Pb Max值: N.D
Cd Max值: N.D

SZE 131771

Test Results
1-4)

Test Item	Green Plastic	Detection Limit	Limit
Cadmium (Cd)	ND	2 ppm	100 ppm
Lead (Pb)	ND	2 ppm	1000 ppm
Mercury (Hg)	ND	2 ppm	1000 ppm
Hexavalent Chromium (Cr^{6+})	ND	2 ppm	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

5)

Flame Retardants	Green Plastic	Detection Limit	Limit
Polybrominated Biphenyls (Mono – Deca)	ND	50 ppm	1000 ppm
Monobromobiphenyl	ND	5 ppm	--
Dibromobiphenyl	ND	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 (Mono – Nona)	ND	45 ppm	1000 ppm
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	See remark

Note : ppm = mg/kg
ND = Not Detected
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 ***

SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch
2/F, Cestar Building, Zhongkang Road Shangmeilin, Shenzhen, China 518049 t (86-755)83114555 f (86-755)83152752 www.cn.sgs.com
中国·深圳·上梅林中康路明星士达大厦2层 邮编:518049 t (86-755)83114555 f (86-755)83152752 e sgs.china@sgs.com

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.	:	SZECO060420715RS-3.1
Supplier/ Manufacturer	:	HUISHENG
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.
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) Determination of PBBs (polybrominated biphenyls), PBDEs (Polybrominated 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).

4) 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).

5) 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

SZE 159946

Test Results

Test Item	Black Plastic	Detection Limit
1) Cadmium (Cd)	ND	2 ppm
2) Lead (Pb)	ND	2 ppm
3) Mercury (Hg)	ND	2 ppm
4) Hexavalent Chromium (Cr^{6+})	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)

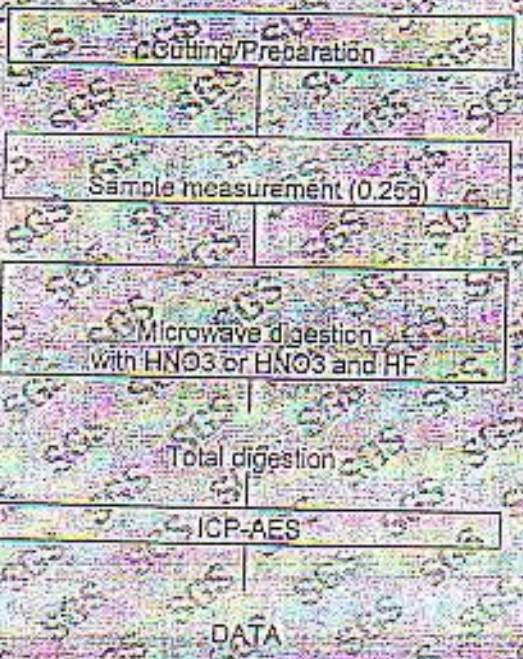
Flame Retardants	Black Plastic	Detection Limit
Polybrominated Biphenyls (PBBs)		
Monobromobiphenyl	ND	5 ppm
Dibromobiphenyl	ND	5 ppm
Tribromobiphenyl	ND	5 ppm
Tetrabromobiphenyl	ND	5 ppm
Pentabromobiphenyl	ND	5 ppm
Hexabromobiphenyl	ND	5 ppm
Heptabromobiphenyl	ND	5 ppm
Octabromobiphenyl	ND	5 ppm
Nonabromobiphenyl	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 : 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

Flow chart of digestion

(EPA 3051/3052 for Cd, Pb)



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

Operator Chow Fuk Fung

Section Chief Wan Chi Wai, Leo

PHOTO APPENDIX

2059812/EC

SGS authenticate the photo on original report only

*** End of Report ***

SGS

Test Report

No.: GZSCR051193565/LP Date: DEC 05, 2005

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 系列、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、汽車用線系列及非標線系列等。

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

[illegible] 有害物質測試報告管制章
Pb Max值: N.D
Cd Max值: N.D
[illegible] 05年12月30日
[illegible] 05年12月30日

GZCM 3S4063.

Results :

(1)

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

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

(2)

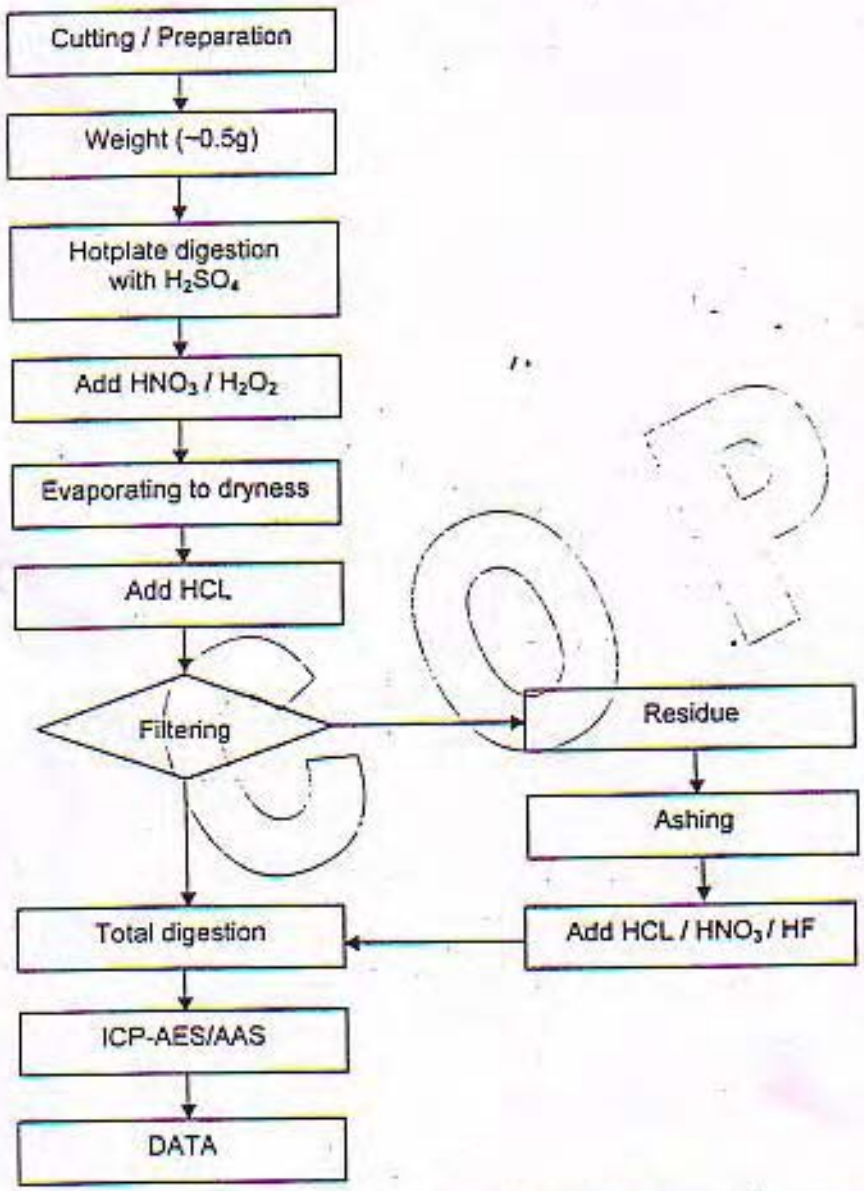
	Yellow plastic grains
Flame Retardants	
Polybrominated Biphenyls (PBBs)	
Monobromobiphenyl	ND
Dibromobiphenyl	ND
Tribromobiphenyl	ND
Tetrabromobiphenyl	ND
Pentabromobiphenyl	ND
Hexabromobiphenyl	ND
Heptabromobiphenyl	ND
Octabromobiphenyl	ND
Nonabromodiphenyl	ND
Decabromodiphenyl	ND
Polybrominated Diphenylethers (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

*** End of Report ***

SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Testing Laboratory
198 KEZHU Road, SCIENTECH Park Guangzhou Economic & Technology Development District, Guangzhou, China 510663 t (86-20)82155555 f (86-20)82075113 www.cn.sgs.com
中国·广州·经济技术开发区科学城科珠路198号 邮编: 510663 t (86-20)82155555 f (86-20)82075113 e sgs.china@sgs.com
Member of SGS Group (Société Générale de Surveillance)

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



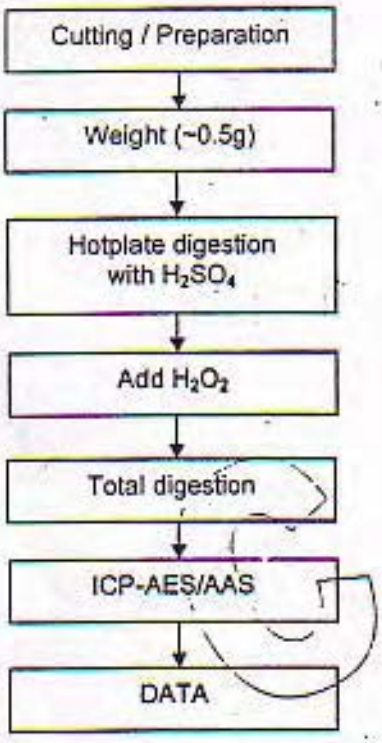
The samples were dissolved totally by pre-conditioning method according to above flow chart.

Operator : Vincent Li
Leader : Adams Yu

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

SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Testing Laboratory
198 KEZHU Road, SCIENTECH Park Guangzhou Economic & Technology Development District, Guangzhou, China 510663 t (86-20)82155555 f (86-20)82075113 www.cn.sgs.com
中国·广州·经济技术开发区科学城科珠路198号 邮编:510663 t (86-20)82155555 f (86-20)82075113 e sgs.china@sgs.com
Member of SGS Group (Société Générale de Surveillance)

SGS

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 系列
Lot No.	: JMT060202
Material	: NYLON
Main substance	: NYLON
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.

Huang Fang, Sunny
Sr. Engineer

GZCM 209…

中国 · 广州 · 经济技术开发区科学城科珠路198号 邮编: 510663 t (86-20)82155555 f (86-20)82075125 www.cn.sgs.com e sgs.china@sgs.com

Results :

(1)

Item	Unit	MDL	Beige plastic housing
Lead Content (Pb)	ppm	2	N.D.
Cadmium Content (Cd)	ppm	2	N.D.
Mercury Content (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)	
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

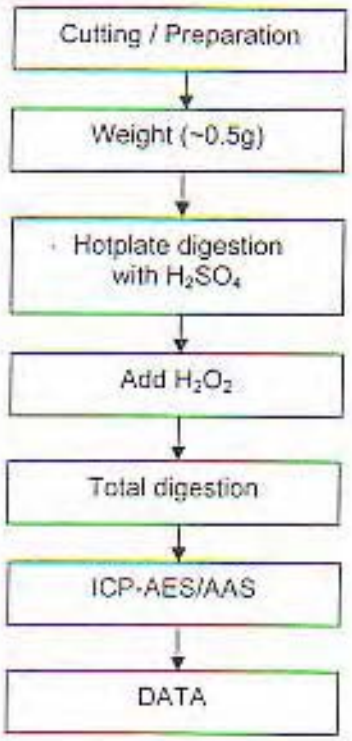
*** End of Report ***

198 KEZHU Road, SCIENTECH Park Guangzhou Economic & Technology Development District, Guangzhou, China 510663 t (86-20)82155555 f (86-20)82075125 www.cn.sgs.com
中国·广州·经济技术开发区科学城科珠路198号 邮编: 510663 t (86-20)82155555 f (86-20)82075125 e sgs.china@sgs.com
Member of the SGS Group (SGS SA)

ATTACHMENTS

(1)

Flow chart of digestion (Cadmium content) :

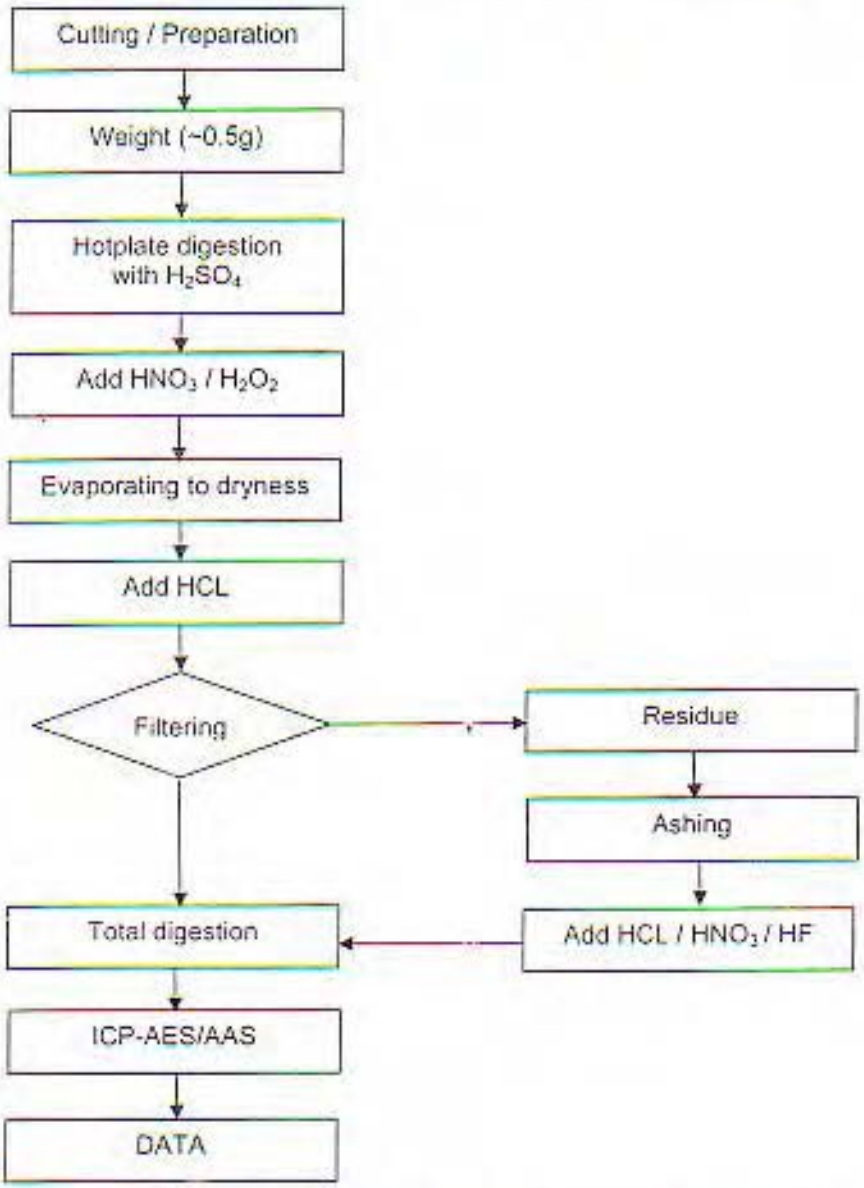


The samples were dissolved totally by pre-conditioning method according to above flow chart.

Operator : Sams Deng
Leader : Joe Li

198 KEZHU Road, SCIENTECH Park Guangzhou Economic & Technology Development District, Guangzhou, China 510663 t (86-20) 82155555 f (86-20) 82075125 www.cn.sgs.com
中国·广州·经济技术开发区科学城科珠路198号 邮编: 510663 t (86-20) 82155555 f (86-20) 82075125 e sgs.china@sgs.com

(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

198 Kezhu Road, Scientific Zone, Economic & Technology Development District, Guangzhou, China 510663 t (86-20) 82155555 f (86-20) 82075125 www.cn.sgs.com
中国·广州·经济技术开发区科学城科珠路198号 邮编: 510663 t (86-20) 82155555 f (86-20) 82075125 e sgs.china@sgs.com

To: 鑫□□□□□
From: □□□□

SGS

Te Report

No.: GZSCR051185022/LP* Date: NOV 17, 2005

SHIN YUAN ELECTRONIC CO., LTD.
IN THE ROAD OF BU BU GAO, 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
Sample Receiving Date	: NOV 07, 2005
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.
Test Method	: 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 referance to EPA 3052: 1996 / 7473: 1998 / other acid digestion. Hexavalent Chromium content - With reference to EPA 3060A : 1996 & EPA 7196A : 1992 / acid digestion. Analysis was performed by Atomic Absorption Spectrometer / Inductively Coupled Plasma Atomic Emission Spectrometer (ICP-AES) / Direct Mercury analyzer / UV-VIS Spectrophotometer.

RESULTS

	Silvery-grey metal spring
Lead Content (Pb)	N.D.
Cadmium Content (Cd)	N.D.
Mercury Content (Hg)	N.D.
Hexavalent Chromium Content [Cr(VI)]	N.D.

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

*** End of Report ***

COPY

Signed for and on behalf of
SGS-CSTC Ltd.

Zhang Li, Amy
Sr. Engineer

GZCM 365254

SGS

Test Report

No. SH6024497/CHEM Date: 3.23.2006

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.
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 GC-MS.

Test Results : Please refer to next page

Signed for and on behalf of
SGS-CSTC Chemical Laboratory

Ella Zhang
Sr. Section Head

SGS

Test Report

No. SH6024497/CHEM Date: 3.23.2006

Test Results :

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.
4	Hexavalent Chromium (Cr VI)	mg/kg	2	N.D.
5	Polybrominated biphenyls (PBBs)	—	—	—
	Monobromobiphenyl	mg/kg	5	N.D.
	Dibromobiphenyl	mg/kg	5	N.D.
	Tribromobiphenyl	mg/kg	5	N.D.
	Tetrabromobiphenyl	mg/kg	5	N.D.
	Pentabromobiphenyl	mg/kg	5	N.D.
	Hexabromobiphenyl	mg/kg	5	N.D.
	Heptabromobiphenyl	mg/kg	5	N.D.
	Octabromobiphenyl	mg/kg	5	N.D.
	Nonabromobiphenyl	mg/kg	5	N.D.
	Decabromobiphenyl	mg/kg	5	N.D.
	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 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.
	Decabromobiphenyl ether	mg/kg	5	N.D.

SGS

Test Report No. SH6024497/CHEM Date: 3.23.2006

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.
*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 ***

SGS

Test Report

No. SH6023992/CHEM Date: 3.23.2006

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 GC-MS.

Test Results : Please refer to next page

Signed for and on behalf of
SGS-CSTC Chemical Laboratory

Ella Zhang
Sr. Section Head

SGS

Test Report

No. SH6023992/CHEM Date: 3.23.2006

Test Results :

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.
4	Hexavalent Chromium (Cr VI)	mg/kg	2	N.D.
5	Polybrominated biphenyls (PBBs)	—	—	—
	Monobromobiphenyl	mg/kg	5	N.D.
	Dibromobiphenyl	mg/kg	5	N.D.
	Tribromobiphenyl	mg/kg	5	N.D.
	Tetrabromobiphenyl	mg/kg	5	N.D.
	Pentabromobiphenyl	mg/kg	5	N.D.
	Hexabromobiphenyl	mg/kg	5	N.D.
	Heptabromobiphenyl	mg/kg	5	N.D.
	Octabromobiphenyl	mg/kg	5	N.D.
	Nonabromobiphenyl	mg/kg	5	N.D.
	Decabromobiphenyl	mg/kg	5	N.D.
	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 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.
	Decabromobiphenyl ether	mg/kg	5	N.D.

SGS

Test Report No. SH6023992/CHEM Date: 3.23.2006

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 ***

SGS

Test Report

No. 2074452/EC Date : Sep 13 2006

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	:	SEP 07 2006
Testing Period	:	SEP 07-13 2006

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

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

H13770884

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	
Dibromodiphenyl 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 :

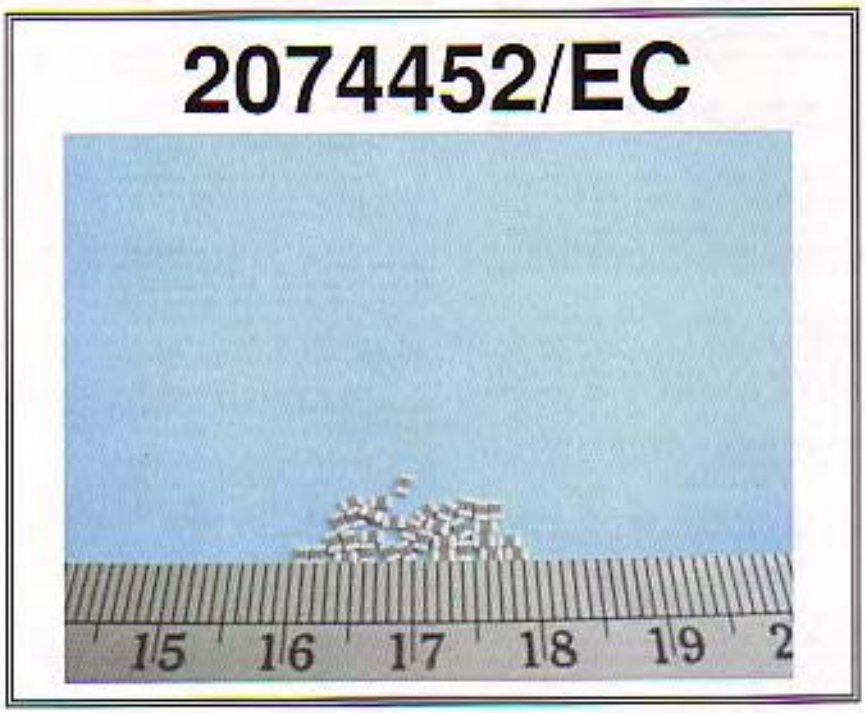
(1) mg/kg = ppm
(2) MDL = Method Detection Limit
(3) ND = Not Detected (Less than MDL)
(4) < = Less Than
(5) * = sum of Mono to NonaBDE & according to 2005/717/EC DecaBDE is exempt.
(6) -- = Not Conducted
(7) The maximum permissible limit is quoted from the document 2005/618/EC amending RoHS directive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

Sample Description :

1. Dk. Grey Ceramic w/ Silvery Metal

SGS Hong Kong Ltd. | 5/F - 8/F, 12/F & 26/F - 28/F, Metropolis Square, 2 On Yiu Street, Sio Lek Yuen, Shatin, N.T., Hong Kong. t (852) 2334 4481 f (852) 2764 3129 www.hk.sgs.com

Sample photo :



SGS authenticate the photo on original report only

End of Report

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SGS

Test Report No. SH6076118/CHEM Date: Jun. 26, 2006

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:
1) 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.
4) 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.
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

SHCHEM 013386

Test Results

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.
4	Hexavalent Chromium [Cr(VI)]	mg/kg	2	N.D.
5	Polybrominated biphenyls (PBBs)	---	---	---
	Monobromobiphenyl	mg/kg	5	N.D.
	Dibromobiphenyl	mg/kg	5	N.D.
	Tribromobiphenyl	mg/kg	5	N.D.
	Tetrabromobiphenyl	mg/kg	5	N.D.
	Pentabromobiphenyl	mg/kg	5	N.D.
	Hexabromobiphenyl	mg/kg	5	N.D.
	Heptabromobiphenyl	mg/kg	5	N.D.
	Octabromobiphenyl	mg/kg	5	N.D.
	Nonabromobiphenyl	mg/kg	5	N.D.
	Decabromobiphenyl	mg/kg	5	N.D.
	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 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.
	Decabromobiphenyl ether	mg/kg	5	N.D.

Sample Appearance Description(Photo see appendix):
A. Black-white resistor body (mix 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.

*** End of Report ***

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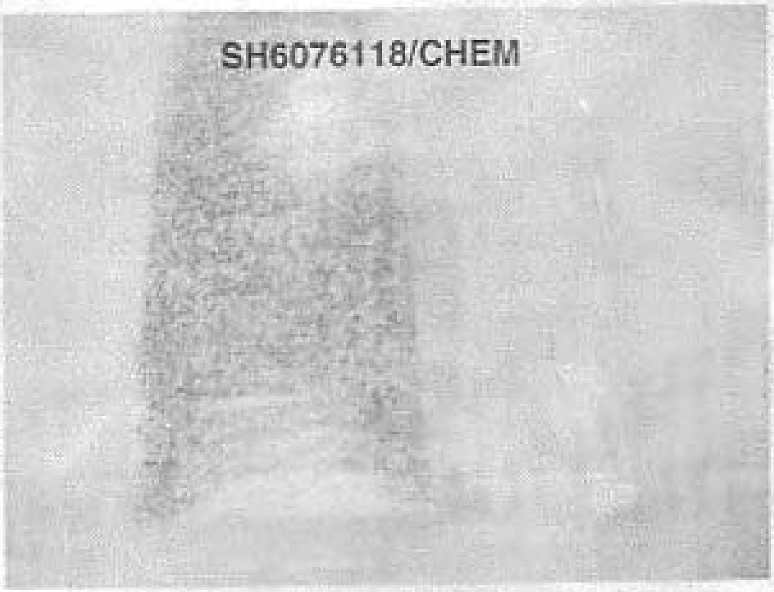
Member of the SGS Group (SGS SA)

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

Test Report

No.: GZSCR051082051/LP Date: NOV 04, 2005

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

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.

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

(23) "頌泰" 树脂保持器
组轴.

SGS

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 : NYLON66RESIN+GF

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.
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

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SGS

Test Report No. SH6015383/CHEM Date: Feb. 22, 2006

Test Results

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.
4	Hexavalent Chromium (Cr VI)	mg/kg	2	N.D.
5	Polybrominated biphenyls (PBBs)	---	---	---
	Monobromobiphenyl	mg/kg	5	N.D.
	Dibromobiphenyl	mg/kg	5	N.D.
	Tribromobiphenyl	mg/kg	5	N.D.
	Tetrabromobiphenyl	mg/kg	5	N.D.
	Pentabromobiphenyl	mg/kg	5	N.D.
	Hexabromobiphenyl	mg/kg	5	N.D.
	Heptabromobiphenyl	mg/kg	5	N.D.
	Octabromobiphenyl	mg/kg	5	N.D.
	Nonabromobiphenyl	mg/kg	5	N.D.
	Decabromobiphenyl	mg/kg	5	N.D.
	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 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.
	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 ***

SHCHEM 473425

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防尘盖

SGS

Test Report 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 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

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SGS

Test Results

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.
4	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/7196A were used for determination of the sample

*** End of Report ***

SHCHEM 470194

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23. JAN. 2007 17:02 (Societe SGS) SGS E&E LAB 8515 NO. 995 P. 14

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SGS

Test Report 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. : SHEC0060206053-7
Model : Φ12.5 AND Φ15.8
Material : SAE52100SF AND SUJ 2 MDSF

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 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

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SGS

Test Report

No. SH8015393/CHEM Date: Feb. 22, 2006

Test Results :

No.	Item	Unit	DL	No.1	No.2
1	Cadmium (Cd)	mg/kg	2	N.D.	N.D.
2	Lead (Pb)	mg/kg	2	N.D.	N.D.
3	Mercury (Hg)	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 3060A/7196A were used for determination of the sample

*** End of Report ***

SHCHEM 470251
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油脂

SGS

Test Report

No. SH6015381/CHEM Date: Feb. 23, 2006 Page 1 of 3

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-439; No.3: LY-552

Sample Receiving Date : Feb. 17, 2006
Testing Period : Feb. 17 – 23, 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 GC-MS.

Test Results : Please refer to next page

Signed for and on behalf of
SGS-CSTC Chemical Laboratory

Ella Zhang
Sr. Section Head

SHCHEM 471687

SGS-CSTC Standards Technical Services Co., Ltd.
10/F, 3rd Building, No.889, Yishan Road, Shanghai, China 200233 t (86-21)61402666 * 2720 f (86-21)54500314 www.cn.sgs.com
中国·上海·宜山路889号3号楼10/层 邮编:200233 t (86-21)61402553 f (86-21)54500314 e sgs.china@sgs.com

SGS

Test Report

No. SH6015381/CHEM Date: Feb. 23, 2006 Page 2 of 3

Test Results :

No.	Item	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.
5	Polybrominated biphenyls (PBBs)	---	---	---	---	---
	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	5	N.D.	N.D.	N.D.
	Pentabromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.
	Hexabromobiphenyl	mg/kg	5	N.D.	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	5	N.D.	N.D.	N.D.
	Decabromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.
	Polybrominated biphenyl ethers (PBBEs(PBDEs))	---	---	---	---	---
	Monobromobiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.
	Dibromobiphenyl 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.
	Hexabromobiphenyl 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.

SGS

SHCHEM 471889

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SGS

Test Report No. SH6015381/CHEM Date: Feb. 23, 2006 Page 3 of 3

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

SHCHEM 471885

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SGS

TO: 鑫茂/IQC莫小姐(收)

Test Report No.: SZTYR050413856/LP Date: MAY 13, 2006 Page 1 of 2

XINCHENG PAOMIAN JIAODIAN PRODUCT CO., LTD.
FIANYIN AREA, QIAOTOU TOWN, DONGGUAN CITY

Report on the submitted samples said to be used for PE 汽泡袋

Country of Destination : EUROPE.
Sample Receiving Date : APR 30, 2006,
Testing Period : MAY 07, 2006 - MAY 12, 2006.

Test Requested : To determine Total Lead, Cadmium, Mercury and Hexavalent Chromium content in the submitted packaging samples.

Test Method : Analysis was performed by Inductively Coupled Plasma Atomic Emission Spectrometer.

Results : Please refer to next page.

Conclusion : 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.

Signed for and on behalf of
SGS-CSTC Ltd.

Chen Laicheng, Helen
Lab Manager

332543

TO: 鑫[illegible]

SGS

Results :

	Transparent plastic film
Lead [Pb]	< 2
Cadmium [Cd]	< 2
Mercury [Hg]	< 2
Hexavalent Chromium [Cr(VI)]	< 2
Total [Pb + Cd + Cr(VI) + Hg]	< 8
Total Limit	100

Note: - < = Less than
- The unit of results is mg per kg

Flame Retardants	Transparent plastic film	Detection Limit (ppm)
Polybrominated Biphenyls (PBBs)		
Monobromobiphenyl	ND	5
Dibromobiphenyl	ND	5
Tribromobiphenyl	ND	5
Tetrabromobiphenyl	ND	5
Pentabromobiphenyl	ND	5
Hexabromobiphenyl	ND	5
Heptabromobiphenyl	ND	5
Octabromobiphenyl	ND	5
Nonabromodiphenyl	ND	5
Decabromodiphenyl	ND	5
Polybrominated Diphenylether (PBDEs)		
Monobromodiphenyl ether	ND	5
Dibromodiphenyl 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

Note: ND = Not Detected (< 5ppm)
Non-detected is lower than detection limit value.

*** End of Report ***

332545

2/F,4/F,5/F, Cedar Building, Zhongkang Road, Shangmeilin, Shenzhen China 518049 t (86-755)83114358 f (86-755)83106190 83113534 www.cn.sgs.com

SGS

Test Report

No. 2052491/EC Date : Feb 15 2006

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 砂钢片.

SGS Job No.	:	1976699
SGS Ref. No.	:	SZECO060204023RS
Buyer	:	SONY
Supplier / Manufacturer	:	SOURCE CHEMICAL TECH
Sample Receiving Date	:	FEB 11 2006
Testing Period	:	FEB 11 – 15 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 PBBs (polybrominated biphenyls) and PBDEs (Polybrominated 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.
4) 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).
5) 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 Ka Ting, Family
Laboratory Executive

SZE 134582

2/F, Dastar Building, Zhongkang Road,Shangmeilin,Shenzhen,China 518049 t (86-755)83114369 f (86-755)83162762 www.cn.sgs.com
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Member of SGS Group (Société Générale de Surveillance)

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 (Cr^{6+})	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)	---	---
Monobromobiphenyl	ND	5 ppm
Dibromobiphenyl	ND	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 : 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

SZE 134583

SGS
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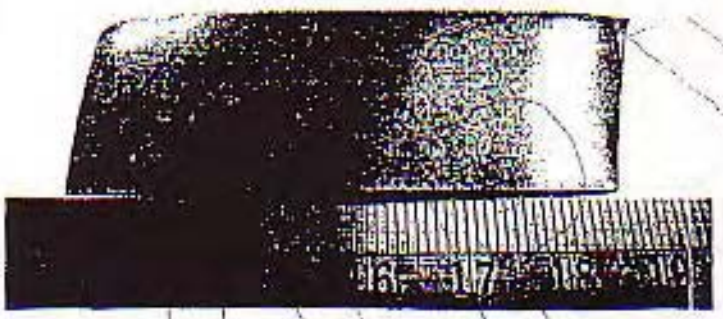
PHOTO APPENDIX

2052491/EC



SGS authenticate the photo on original report only

*** End of Report ***

SZE 134584

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Member of SGS Group (SGS International Certification Services China Co., Ltd.)

To: 鑫贺品保/黄生

SGS

From: 博南

Test Report No.: GZSCR0512106804/LP Date: JAN 05, 2006

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 sample.
(3) 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 / 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.

Zhang Li, Amy
Sr. Engineer

中国·广州·经济技术开发区科学城科珠路198号 邮编: 510663
www.cn.sgs.com

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)	2

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
Decabromodiphenyl ether	ND

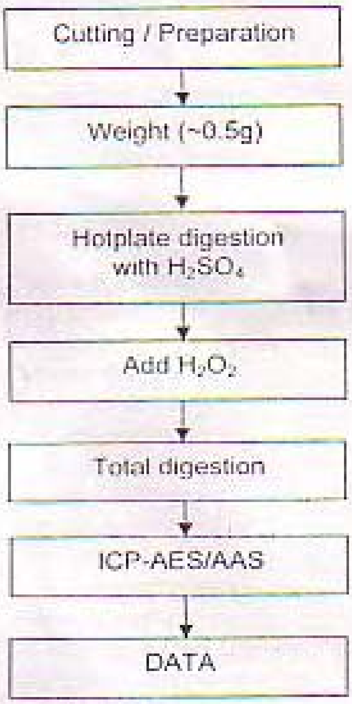
Note : - N.D. = Not Detected (< 5 ppm)
- ppm = mg/kg

*** End of Report ***

ATTACHMENTS

(1)

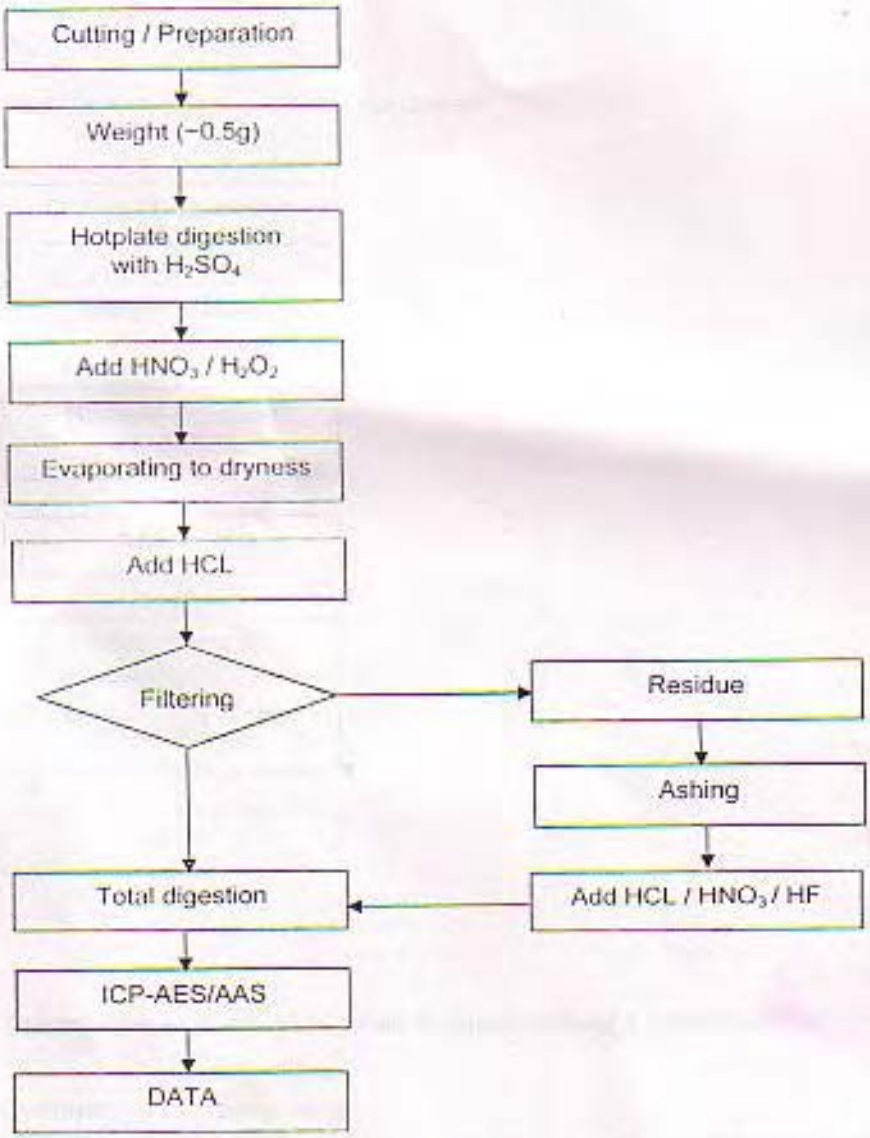
Flow chart of digestion (Cadmium content) :



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

Operator : Sams Deng
Leader : Joe Li

(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

高铁电材.

Test Report

No.: GZ0605079679/CHEM Date: JUN 05, 2006 Page 1 of 2

HOI FU PAPER PRODUCTS LTD
SAN TUN HOUJIE, DONGGUAN CITY, S

Report on the submitted packaging samples said to be CARTON

SGS Ref No.	: GZ0605164J2EC-3.1
Item / Model No.	: A=A
Sample Receiving Date	MAY 31, 2006
Testing Period	MAY 31, 2006 TO JUN 02, 2006
Test Requested	1) To determine Lead, Cadmium, 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 soluble Selenium content in 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 Hexava ent 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 EN71 part 3 : 1994 (including amendment A1:2000). Analysis was performed by Atomic Absorption Spectrometer / Inductively Coupled Plasma Atomic Emission Spectrometer (ICP-AES).
Result	: Please refer to next page.
Conclusion	1) The Lead, Cadmium, Mercury and Hexavalent 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 behalf of
SGS-CSTC Ltd.

Zhang Li, Amy
Sr. Engineer

GZCM 063905

Results :

1) 94/62/EC

	Brown corrugated paper board
Lead [Pb]	37
Cadmium [Cd]	< 2
Mercury [Hg]	< 2
Hexavalent Chromium [Cr(VI)]	< 2
Total [Pb + Cd + Cr(VI) + Hg]	< 43
Total Limit	100

Note - < = Less than
- The unit of results is mg per kg

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

Element		Brown corrugated paper board	Limit
Soluble Lead	(Pb)	14	90 mg/kg
Soluble Antimony	(Sb)	< 2	60 mg/kg
Soluble Arsenic	(As)	< 2	25 mg/kg
Soluble Barium	(Ba)	24	1000 mg/kg
Soluble Cadmium	(Cd)	< 5	75 mg/kg
Soluble Chromium	(Cr)	< 5	60 mg/kg
Soluble Mercury	(Hg)	< 2	60 mg/kg
Soluble Selenium	(Se)	< 5	500 mg/kg

Note : - < = Less than

*** End of Report ***

SGS

Test Report

No.: GZ0605079660/CHEM Date: JUN 08 2006 Page 1 of 2

HOI FU PAPER PRODUCTS LTD
SAN TUN HOUJIE, DONGGUAN CITY,S

Report : the submitted packaging samples said to be CARTON

SGS Ref No.	:	GZ0605164432EC-3 2
Item / Model No	:	B3B
Sample Receiving Date	:	MAY 31, 2006
Testing Period	:	MAY 31, 2006 TO JUN 02, 2006
Test Requested	:	1) To determine Lead, Cadmium, 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, soluble Selenium content in 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 Atomic Absorption Spectrometer / Inductively Coupled Plasma 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 / Inductively Coupled Plasma Atomic Emission Spectrometer (ICP-AES).
Result	:	Please refer to next page.
Conclusion	:	1) The Total Cadmium, Mercury and Hexavalent Chromium Contents 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 behalf of
SGS-CSTC Ltd.

Zhan LJ, Amy
Sr. Engineer

SGS

Test Report

Results :

1) 94/62/EC

	Brown corrugated paper board
	21
Lead (Pb)	< 2
Cadmium (Cd)	< 2
Mercury (Hg)	< 2
Hexavalent Chromium (CrVI)	----
Total (Pb + Cd + CrVI + Hg)	< 27
Total Limit	100

Note : - < = Less than
- The unit of results is mg per kg

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

Element		Brown corrugated paper board	Limit
Soluble Lead	(Pb)	< 5	90 mg/kg
Soluble Antimony	(Sb)	< 5	60 mg/kg
Soluble Arsenic	(As)	< 3	25 mg/kg
Soluble Barium	(Ba)	31	1000 mg/kg
Soluble Cadmium	(Cd)	< 3	75 mg/kg
Soluble Chromium	(Cr)	< 3	60 mg/kg
Soluble Mercury	(Hg)	< 2	60 mg/kg
Soluble Selenium	(Se)	< 3	500 mg/kg

Note : - < = Less than

*** End of Report ***

GZCM 583902

Test Report

No.: GZ0605079681/CHEM Date: JUN 05, 2006 Page 1 of 2

OI FU PAPER PRODUCTS LTD
AN TUN HOUJIE, DONGGUAN CITY,S

eport on the submitted packaging samples said to be CARTON

GS Ref No.	:	GZ0605164432EC-3 3
tem / Model No.	:	K=K
Sample Receiving Date	:	MAY 31, 2006
Testing Period	:	MAY 31, 2006 TO JUN 02, 2006
Test Requested	:	1) To determine Lead, Cadmium, 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, soluble Selenium content in 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 Atomic Absorption Spectrometer / Inductively Coupled Plasma 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 / Inductively Coupled Plasma Atomic Emission Spectrometer (ICP-AES).
Result	:	Please refer to next page.
Conclusion	:	1) The Lead, Cadmium, Mercury and Hexavalent 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 behalf of
SGS-CSTC Ltd.

Zhang Li, Amy
Sr. Engineer

www.cn.sgs.com
t (86-20) 82075125

esults :

94/62/EC

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

Note: - < = Less than
- The unit of results is mg per kg

) EN71 Part 3 : 1994 (including amendment A1:2000) - Migration of Certain Elements

Element	Brown corrugated paper board w/ red printing	Limit
Soluble Lead (Pb)	< 5	90 mg/kg
Soluble Antimony (Sb)	< 2	60 mg/kg
Soluble Arsenic (As)	< 2	25 mg/kg
Soluble Barium (Ba)	20	1000 mg/kg
Soluble Cadmium (Cd)	< 5	75 mg/kg
Soluble Chromium (Cr)	< 5	60 mg/kg
Soluble Mercury (Hg)	< 2	60 mg/kg
Soluble Selenium (Se)	< 5	500 mg/kg

Note: - < = Less than

*** End of Report ***

SGS TO鑫荧 IQC/参〇 海桦 时

Test Report

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	: □0.2×0.2~1.2×1.2mm
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.
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 ISO-3613 : 2000(c). 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
Sr. Section Head

DONGGUAN HIFAM ELECTRONICS MATERIAL FACTORY 东莞海桦电子材料厂

SHCHEM 562868

Test Results :

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.
4	Hexavalent Chromium (Cr VI)	$\mu g/cm^2$	0.02	N.D.
		mg/kg*	2	N.D.
5	Polybrominated biphenyls (PBBs)	---	---	---
	Monobromobiphenyl	mg/kg	5	N.D.
	Dibromobiphenyl	mg/kg	5	N.D.
	Tribromobiphenyl	mg/kg	5	N.D.
	Tetrabromobiphenyl	mg/kg	5	N.D.
	Pentabromobiphenyl	mg/kg	5	N.D.
	Hexabromobiphenyl	mg/kg	5	N.D.
	Heptabromobiphenyl	mg/kg	5	N.D.
	Octabromobiphenyl	mg/kg	5	N.D.
	Nonabromobiphenyl	mg/kg	5	N.D.
	Decabromobiphenyl	mg/kg	5	N.D.
	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 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.
	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
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 ***

DONGGUAN HAIHUI ELECTRONICS MATERIAL FACTORY 东莞海辉电子材料厂

SHCHEM 562869

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Member of SGS Group (Société Générale de Surveillance)

SGS

Test Report

No.: GZ0605089089/CHEM Date: SEP 01,2006

SHEN ZHEN YONG AN FLUX CO.,LTD.
5TH 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

Results :

(1)

Item	Unit	MDL	Gray paste
Lead Content (Pb)	ppm	2	96
Cadmium Content (Cd)	ppm	2	4
Mercury Content (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)

	Gray paste
Flame Retardants	----------
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.
Nonebromobiphenyl	N.D.
Decabromobitphenyl	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.
Octebromodiphenyl ether	N.D.
Nonebromodiphenyl ether	N.D.
Decabromodiphenyl ether	N.D.

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

*** End of Report ***

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1 70-

Test Report

No.: GZ0602012510/CHEM Date: FEB 16, 2006

SHEN ZHEN YONG AN FLUX CO., LTD
5TH BLOCK, JIATIANGANGHUANGTIAN INDUSTRIAL DISTRICT, XIXIANGTOWN, BAOAN AREA, SHENZHEN

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

SGS Ref.No. : SZD60204092RC-9.6

Model No. : FLUX

Sample Receiving Date : FEB 10, 2006

Testing Period : FEB 10, 2006 TO FEB 16, 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 EPA 3060A : 1996 & 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 / 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

SGS-CSTC Standards Technical Services Co., Ltd.
中国・广州・经济技术开发区科学城科珠路198号

SGS

Results:

(1)

Item	Unit	MDL	Lt-yellow liquid
Lead Content (Pb)	ppm	2	N.D.
Cadmium Content (Cd)	ppm	2	N.D.
Mercury Content (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)

	Lt-yellow liquid
Flame Retardants	
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

*** End of Report ***

10:25 (842)

SGS

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.
2) Determination of Cadmium content in the submitted samples.
3) Determination of Mercury content in the submitted samples.
4) Determination of Hexavalent Chromium content in the submitted samples.

Test Method :
1) With reference to EPA 3050B:1996 / Other acid 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).
3) With reference to EPA Method 3052: 1996 / other acid digestion. Analysis was performed by Inductively Coupled Plasma Atomic Emission Spectrometer (ICP-AES).
4) 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^{6+})	Negative	0.02mg/kg with $50cm^2$

Note :
- N.D. = Not detected (lower than detection limit)
- ppm = mg/kg
- Negative means the concentration of Hexavalent Chromium extracted from $50cm^2$ 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 $50cm^2$ sample surface area used.
- Photo Appendix is included

*** End of Report ***

Signed for and on behalf of
SGS-CSTC Ltd.

Lui Tet Wah, Wallace
Sr. Lab Manager

SGS

Test Report

No.: GZ0608121421/CHEM Date: AUG 14, 2006

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

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

SGS Ref No.	: GZ10036511EC-2.1
Buyer	: SONY
Sample Receiving Date	: AUG 07, 2006
Testing Period	: AUG 07, 2006 TO AUG 14, 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 & 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 Li. Amy
Sr. Engineer

GZ(M) 082501

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SGS

Test Report

No.: GZ0608121421/CHEM   Date: AUG 14, 2006

Results :

(1)

Item	Unit	MDL	Black plastic	Limit
Lead Content (Pb)	mg/kg	2	10	< 1000mg/kg
Cadmium 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				
Polybrominated Biphenyls (PBBs)				**<1000mg/kg**
Monobromobiphenyl	mg/kg	5	N.D.	
Dibromobiphenyl	mg/kg	5	N.D.	
Tribromobiphenyl	mg/kg	5	N.D.	
Tetrabromobiphenyl	mg/kg	5	N.D.	
Pentabromobiphenyl	mg/kg	5	N.D.	
Hexabromobiphenyl	mg/kg	5	N.D.	
Heptabromobiphenyl	mg/kg	5	N.D.	
Octabromobiphenyl	mg/kg	5	N.D.	
Nonabromodiphenyl	mg/kg	5	N.D.	
Decabromodiphenyl	mg/kg	5	N.D.	
Polybrominated Diphenylethers (PBDEs)(Mon-Non)				**<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.	
Heptabromodiphenyl ether	mg/kg	5	N.D.	
Octabromodiphenyl ether	mg/kg	5	N.D.	
Nonabromodiphenyl ether	mg/kg	5	N.D.	
Decabromodiphenyl ether ^	mg/kg	5	N.D.	

Note : - N.D. = Not Detected (< MDL)
- MDL= Method Detection Limit
- mg/kg = ppm
- ^ : 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.

*** End of Report ***

GZCM 682663

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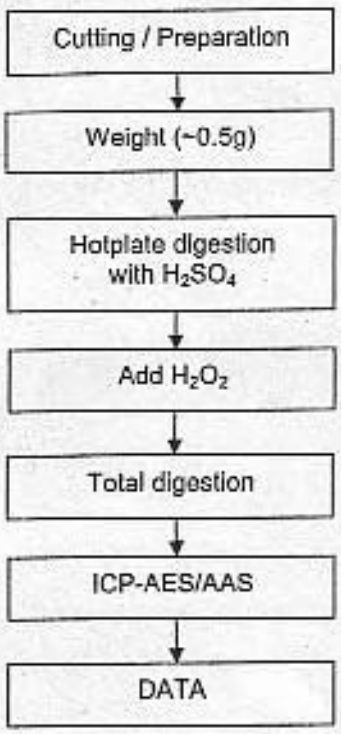
ATTACHMENTS

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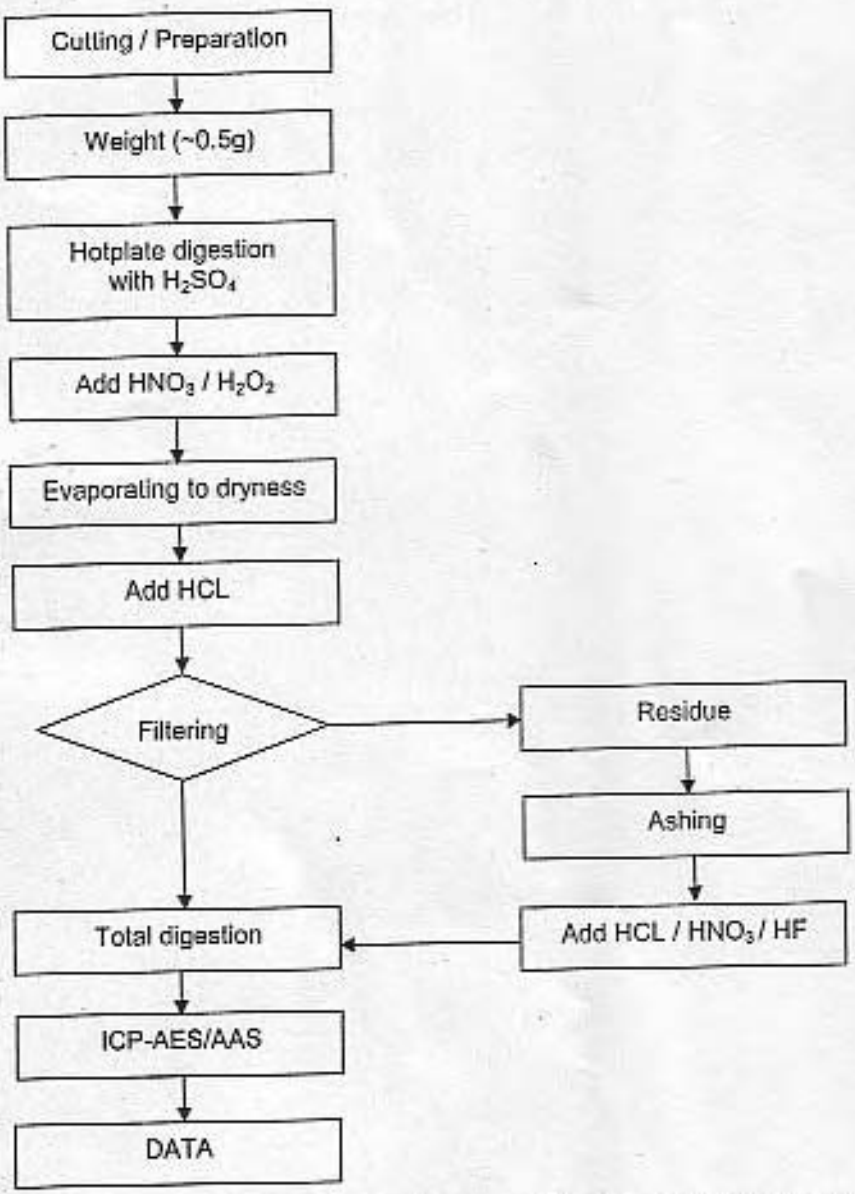
(2)
Flow chart of digestion (wet decomposition and ashing) (Lead content) :



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

Operator : Vincent Li
Leader : Adams Yu

GZ:M 682661

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SGS

Test Report

No.: GZSCR051077213/LP Date: OCT 21, 2005

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

SGS

Results :

(1)

	"PCB" (mixed)
Lead content (Pb)(ppm)	22
Cadmium Content (Cd)	N.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.

*** End of Report ***

GZSM 336 (05)

Test Report

No. SH6046093/CHEM Date: Apr. 24, 2006

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

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Shanghai Branch Chemical Laboratory.
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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 (Cr^{6+})

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

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 (Cr VI)	mg/kg	2	N.D.

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

Item	Unit	DL	No. 1*
Polybrominated biphenyls (PBBs)	mg/kg	---	---
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)(Pentabromobiphenyl ether)	mg/kg	5	N.D.
PBBEs(PBDEs)(Hexabromobiphenyl ether)	mg/kg	5	N.D.
PBBEs(PBDEs)(Heptabromobiphenyl ether)	mg/kg	5	N.D.
PBBEs(PBDEs)(Octabromobiphenyl 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)

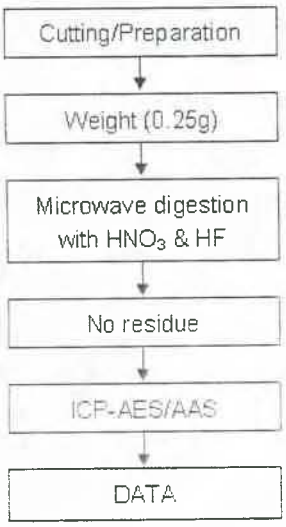
Note : 1mg/kg=1ppm=0.0001%
DL= Detection Limit
N.D. = Not detected
Not Detected is reported when the reading is less than detection limit value.
*The sample(s) was analyzed on behalf of the applicant as mixing whole/part sample in one testing. The result(s) in report means average of whole sample. The 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.

SGS-CSTC Standards Technical Services Co., Ltd Shanghai Branch Testing Service Technical Laboratory.
10/F, 3rd Building, No.889, Yishan Road, Shanghai, China 200233 t (86-21)61402666*2720 f (86-21)54500314 www.cn.sgs.com
中国·上海·宜山路889号3号楼10层 邮编:200233 t (86-21)61402553 f (86-21)54500314 e sgs.china@sgs.com
Member of the SGS Group (SGS SA)

ATTACHMENTS

Flow chart 1

Flow chart of digestion for Cd

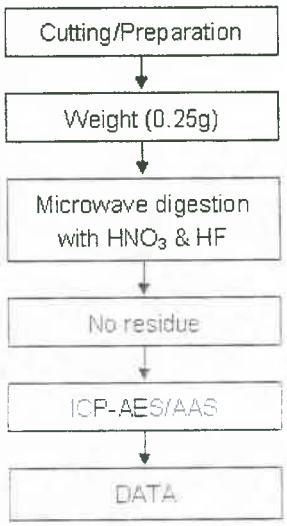


The samples were dissolved totally by pre-conditioning method according to above flow chart

Tested by : Andy Lu
Checked by : Terry Wang

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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SGS

Test Report No. SH6046093/ CHEM

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

SGS-CSTC Standards Technical Services Co., Ltd. Shanghai Branch Chemical Laboratory
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SGS

Test Report

No. SH6046094/CHEM Date: Apr. 24, 2006

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

Sample Receiving Date : Apr. 19, 2006
Testing Period : 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

SGS-CSTC Standards Technical Services Co., Ltd
Shanghai Branch Testing Center Chemical Laboratory
10/F, 3rd Building, No.889, Yishan Road, Shanghai, China 200233 t (86-21)61402666 * 2720 f (86-21)54500314 www.cn.sgs.com
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Test Results:

No.	Item	Unit	DL	A
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 ***

SGS-CSTC Standards Technical Services Co., Ltd. Shanghai Branch Testing Service Chemical Laboratory.
10/F, 3rd Building, No.889, Yishan Road, Shanghai, China 200233 t (86-21)61402666 * 2720 f (86-21)54500314 www.cn.sgs.com
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Member of the SGS Group (SGS SA)

SGS

Test Report No. SH6046094/ CHEM

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

SGS-CSTC Standards Technical Services Co., Ltd.
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南海新合铝业有限公司铝棒化验报告单

生产日期	2005.6.6	牌号	纯铝棒	化验日期	2005.6.6
炉次编号 / 试样编号	规格	化学成份 % 1070材质			

炉次编号 / 试样编号	规格	Si	Mg	Fe	Cu	Mn	Cr	Zn	Ti	低倍检验 晶粒度	气孔	夹杂	疏松	裂纹	表面质量
2107 / 101003	Φ90×320	0.10	<0.03	0.15	<0.01	<0.03	<0.03	<0.06	<0.03	一级	合格	合格	良好	无	合格

主管中心 发行

化验室意见：

符合要求，可以使用

化验员：王新泽

主管部门意见：

Program:AL-6000
Comment:Al-alloys global
Single spar:(s)
Sample No 6063--BG04208(153mm)
Sample Id:MADE IN BAHRAIN

Elements:Concentration
Quality:6063-T5

NO	Si %	Fe %	Cu %	Mn %	Mg %
1	0.4063	0.1663	0.0153	0.0080	0.541
2	0.4128	0.1632	0.0153	0.0078	0.569
3	0.4107	0.1649	0.0155	0.0078	0.570
4	0.4106	0.1613	0.0156	0.0079	0.568
5	0.4117	0.1620	0.0153	0.0078	0.572

NO	Zn %	Ni %	Cr %	Pb %	Sn %
1	<0.0100	0.0051	0.0032	0.0018	<0.0010
2	<0.0100	0.0051	0.0031	0.0017	<0.00100
3	<0.0100	0.0052	0.0031	0.0016	<0.0100
4	<0.0100	0.0050	0.0031	0.0015	<0.0010
5	<0.0100	0.0050	0.0031	0.0016	<0.0010

NO	Ti %	Bi %	Zr %	Al %
1	0.0164	<0.0010	0.0010	98.8
2	0.0154	<0.0010	0.0010	98.8
3	0.0150	<0.0010	0.0010	98.8
4	0.0155	<0.0010	0.0010	98.8
5	0.0150	[illegible]0.0010	0.0010	98.8

Program:AL-6000
Comment:Al-alloys global
Average (n=5)
Sample No:6063--BG04208(153mm)
Sample No:MADE IN BAHRAIN

文管中心
发行

Si %	Fe %	Cu %	Mn %	Mg %
, 2000				0.4500
0.410	0.1635	0.0154	0.0079	0.569
0.600	0.3500	0.1000	0.1000	0.900

Zn %	Ni %	Cr %	Pb %	Sn %
<0.0100	0.0051	0.0031	0.0016	<0.0010
, 1000		0.1000		

Ti %	Bi %	Zr %	Al %
. 0155	<0.0010	<0.0010	98.8
. 1000			

审核: 袁顺祥 测试人: 王华桥

SGS

测试报告

编号：GZSCR050531917/LP　　日期：2005 年 5 月 31 日 页码 1 of 2

东莞泓瑄电子科技有限公司
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"的样品所做的测试

SGS 参考编号	：SZ050508915EC
收板日期	：2005 年 5 月 24 日
测试日期	：2005 年 5 月 24 日至 2005 年 5 月 30 日

测 试 要 求　：(1)委托样品中的铅，镉，汞和六价铬含量。
(2)委托样品中的多溴联本，多溴联本醚的含量。

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。
汞含量 –SGS 内部方法，参照 EPA 方法 3052；1996。
六价铬含量 – 参照 EPA 方法 3060A:1996 和 7196A:1992。
分析仪器为电感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：请参见下一页

Signed for and on behalf of
SGS-CSTC Ltd.

Xie YongBiao, Sam
Lab Manager

SGS-CSTC Standards Technical Services Co., Ltd.
Guangzhou Branch Chemical Laboratory
4/F, Block B, Yu Jing Industrial Park, Jing Shan Road, Zhu Cun Dong Fu Area, Tianhe District, Guangzhou, China 510659 t (86-20) 82155300 f (86-20) 82155555 www.sgsgz.com
中国·广州·天河区东圃珠村灵山路裕景工业园八栋四楼 邮编:510659 t (86-20) 82155300 f (86-20) 82155555 e sgs.china@sgs.com

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)

	No.1	No.2	No.3
铅含量 (ppm)	15	18	5
镉含量	N.D.	N.D.	N.D.
汞含量	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

(2)

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
二溴联苯醚	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 ***

SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch-Chemical Laboratory
中国 广州 天河区东圃珠村灵山路裕景工业园八号四楼 邮编：510660

[redacted] 本公司生產[illegible]片材之物理性能表

PHYSICAL CHARACTERISTICS [redacted]

MINERON PLASTIC SHEEETS

PROPERTIES 物性		METHOD (ASTM) 測試方法	UNIT 單位	PVC	HIPS	APET	PETG
Melting Point 熔點		(DSC)	°C	—	—	251	—
Glass transition temperature 玻璃化轉變溫度		(DSC)	°C	67.5	94.5	71	74
Deflection temperature 彎曲溫度		(DSC)	°C	62	82	65	74
Shrinkage 收縮率							
90 °C	Horizonal 橫		%	1.0	1.0	1.2	9.0
	Vertical 直		%	4.6	0	0.5	0.3
110°C	Horizonal 橫		%	1.0	5.2	5.0	4.4
	Vertical 直		%	3.9	1.2	2.3	2.3
Specific Gravity 比重		D 792	g/cm³	1.4	1.06	1.34	1.27
Water Absorption 吸水率		D 570	%	0.64	0.46	0.42	0.46
Tensile strength at Break 斷裂強度		D 638	psi	6820	3750	8900	7690
Elongation at Break 斷裂伸長率		D 638	%	178	25	471	6
Tensile Modulus 拉伸模量		D 638	10^3 psi	759	100	639	618
Hardness (Rockwell) 洛氏硬度		D 785	R	81	69	70	74
Impact Strength (Dart) 落球沖擊強度		D 1790	J / M	6100	4000	7200	6900
Flexural Strength 撓曲強度	Horizonal 橫	D 790	psi	11800	6590	11200	7980
	Vertical 直	D 790	psi	11200	6590	10800	7980
Flexural Modulus 撓曲模量	Horizonal 橫	D 790	10^3 psi	967	436	731	500
	Vertical 直	D 790	10^3 psi	1010	473	719	583

THE FOREGOING DATA ARE CONSIDERED TO BE REPRESENTATIVE OF AVERAGE PROPERTIES FOR FILMS OF THICKNESS 0.3mm

以上資料是根據每種片材厚度0.3mm樣板之平均物理性能

SGS

Test Report

No. 2031819/EC Date : Aug 06 2005 Page 1 2

ZHONG FA INDUSTRAL CO
FLAT A, 9/F., JAIFAT BUILDING 45-47 CONNAUGHT ROAD WEST,
HONG KONG

Report on the submitted sample said to be PVC 塑料膠片.

Item No.	:	[illegible]
Supplier/ Manufacturer	:	[illegible]
Country of Origin	:	TAIWAN
Country of Destination	:	CHINA
Sample Receiving Date	:	JUL 27 2005
Testing Period	:	JUL 28 – AUG 04 2005

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 [illegible]
5) To determine PBBs (polybrominated biphenyls) and PBDEs (Poly[illegible] diphenylethers) of the submitted sample.
6) To determine the Tributyltin (TBT), Triphenyltin (TPT) in the submitted sample.

Test Method

1) With reference to BS EN 1122:2001, Method B, analysis was performed by Inductively Coupled Argon Plasma-Atomic Emission Spectrometry (ICP-AES).
2) With reference to EPA Method 3050B/ 3051/ 3052. Analysis was performed by Inductively Coupled Argon Plasma-Atomic Emission Spectrometry (ICP-AES).
3) With reference to EPA Method 3051/ 3052. Analysis was performed by Inductively Coupled Argon Plasma-Atomic Emission Spectrometry (ICP-AES).
4) With reference to EPA Method 3060A & 7196A. The samples were alkaline digested by using EPA Method 3060A. [illegible] with reference to SGS in-house method. Analysis was performed by UV-VIS or LC/ MS.
6) With reference to DIN 38407-13. Analysis was performed by GC/[illegible]

Test Results 1-6) Please refer to next page.

Signed for and on behalf of
SGS Hong Kong Ltd.

Ho Ka Ling Family
Laboratory Executive

SGS

Test Report

No. 2031519/EC Date : Aug 06 2005 Page : 2

Test Results

Test Item	Transparent Plastic	Detection Limit
1) Cadmium (Cd)	ND	2 ppm
2) Lead (Pb)	ND	2 ppm
3) Mercury (Hg)	ND	2 ppm
4) Hexavalent Chromium ([illegible])	ND	2 ppm

(Results shown are of the total weight of samples)

Note : ppm = mg/kg
ND = Not Detected
Not detected [illegible] the reading [illegible] detection limit value

5) Flame Retardants	Transparent Plastic	Detection Limit
Polybrominated Biphenyls (PBBs)	---	---
Monobromobiphenyl	ND	5 ppm
Dibromobiphenyl	ND	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

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

Test Item	Transparent Plastic	Detected Limit
Tributyltin (TBT)	ND	0.02 ppm
Triphenyltin (TPT)	ND	0.02 ppm

Note : ppm = mg/kg
ND = Not Detected
Not detected was reported when the reading is less than detection limit value

Remark : Test was conducted in SGS Hong Kong Limited

*** End of Report ***

[illegible] Jianshang Road Shangmailin Shenzhen China [illegible] t (86-755)8211[illegible] f (8[illegible]
中国・深圳・上梅林中康路[illegible]大厦2楼 邮编:518049 t (86-755)8211[illegible] f (8[illegible]

長春

長春人造樹脂廠股份有限公司
台北市 10477 松江路三段一號七樓

CHANG CHUN PLASTICS CO.,LTD.

TLX:2253 LONGLITE
CABLE ADDRESS: LONGLITE TAIPEI

NO.301 SONGJIANG ROAD. 7FL. TAIPEI. 10477 TAIWAN

FAX: (02)25033078
TEL: (02)25038131

材質證明
MATERIAL FORMULATION CONFIDENTIAL REPORT

客戶 Customer :

材質名稱 Type of Material : PBT (Poly Butylene Terephthalate) 聚丁烯對苯二甲酸酯

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

說明 Description :

茲證明 PBT 4815 & 4820 & 4830 & 4115 & 4120 & 4130 組成如下：

規 格	PBT Resin CAS NO. 26062-94-2	Flame Retardant CAS NO. 68928-70-1	Flame Retardant CAS NO. 71342-77-3	Antimony Trioxide CAS NO. 1309-64-4	Glass Fiber CAS NO. 65997-13-3	Additives CAS NO. -
4115	58.5	16.5	-	5	15	5
4120	53.5	16.5	-	5	20	5
4130	46.5	-	14	4.5	30	5
4815	66	11	-	3	15	5
4820	61	11	-	3	20	5
4830	52.5	10	-	2.5	30	5

供應商 MATERIAL SUPPLIER

Company: CHANG CHUN PLASTICS CO.,LTD.

Signature:

Address: No.14 KUNG-YEH 1ST ROAD. JEN-WU INDUSTRIES DISTRICT. KAOHSIUNG. TAIWAN. ROC.

Date: NOV 5. 2004

SGS

TEST REPORT

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)	ppm	ICP-AES after reference to US EPA 3050B or other acid digestion.	2	n.d.
PBBs(Polybrominated biphenyls)	---	---	---	---
Monobromobiphenyl	%	With reference to USEPA3540C or USEPA3550C. Analysis was performed by HPLC/DAD, LC/MS or GC/MS. (prohibited by 2002/95/EC (RoHS), 83/264/EEC, and 76/769/EEC)	0.0005	n.d.
Dibromobiphenyl	%		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	%		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 Taiwan Limited

SGS TAIWAN LTD TAIWAN

TW2196666

SGS

TEST REPORT

KA/2005/B0920

TAIWAN LTD SGS TAIWAN

TEST REPORT

REPORT NO.KA/2005/B0982
DATE: 2005/11/24

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.
TESTING DATE : 2005/11/17 TO 2005/11/24.
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 3050B or other acid digestion.	2	n.d.
PBBs(Polybrominated biphenyls)	---	---	---	---
Monobromobiphenyl	%	With reference to USEPA3540C or USEPA3550C. Analysis was performed by HPLC/DAD, LC/MS or GC/MS. (prohibited by 2002/95/EC (RoHS), 83/264/EEC, and 76/769/EEC)	0.0005	n.d.
Dibromobiphenyl	%		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	%		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 Taiwan Limited

SGS

TEST REPORT

REPORT NO.KA/2005/B0982
DATE: 2005/11/24

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

SGS

TEST REPORT

KA/2005/B0982

宝钢集团
上海二钢有限公司
BAO STEEL GROUP
SHANGHAI ERGANG CO., LTD.
221 HUANG XIN ROAD SHANGHAI 200080
PEOPLE'S REPUBLIC OF CHINA
POST CODE: 200080
TEL:(021)65384493 65188886-2325
FAX:(021)65432629

产品质量证明书
QUALITY CERTIFICATE

05-3-8

订货单位 CUSTOMER	[illegible]		
收货单位 PURCHASER		产品名称 PRODUCT	[illegible]
标准 SPECIFICATION	YB 4027-91	客户订货编号 CUSTOMER ORDER NO.	03176
级精度 ATTAINABLE PRECISION		签发日期 DATE OF ISSUE	2005.03.17
		证书号 CERTIFICATE NO.	05-083960
		交货日期 DATE OF DELIVERY	2005.03.16
		许可证号 LICENSE NO.	
		合同号 CONTRACT NO.	

序号 NO.	原炉号 HEAT NO.	轧制炉号 LOT NO.	牌号 DESIGNATION	直径 D (mm)	盘数 QTY	重量 MASS (kg)	C *10⁻²	Si *10⁻²	Mn *10⁻²	P *10⁻³	S *10⁻³	Cu *10⁻²	Al *10⁻³		屈服 Y.S. Mpa	抗拉 T.S. Mpa	伸长 E.L. %	缩缩 R.A. %	冷弯 B.T. d=a	脱碳 DEC. (mm)	晶粒度 G.S.	冷镦 U.T.	表面 S.F.
1	103438	3-138	SWRM10-1	5.50	194	262420	11	0	38	7	8					385	30		合格				合格
合计 TOTAL			盘数: 194			重量 262420 kg																	

Column groups: 化学成分% CHEMICAL COMPOSITION (C to Al); 拉伸试验 TENSILE TEST (Y.S. to R.A.)

加工用途 (APPLICATION): L

备注 REMARKS:

注释 NOTES: D-DIAMETER; B.T.-COLD-BEND TEST; Y.S.-YIELD STRENGTH; U.T.-UPSET TEST; T.S.-TENSILE STRENGTH; DEC.-DECARBURIZATION; E.L.-ELONGATION; R.A.-[illegible] REDUCTION OF AREA; G.S.-GRAIN SIZE; S.F.-SURFACE [illegible]

2

检验者 SURVEYOR TO

本产品已按上述要求进行制造和检验，其结果符合要求，特此证明。
WE HEREBY CERTIFY THAT MATERIAL DESCRIBED HEREIN HAS MANUFACTURED AND TESTED WITH SATISFACTORY RESULTS IN ACCORDANCE WITH THE REQUIREMENTS OF THE ABOVE METERIAL SPECIFICATION

技术监督科 [illegible]
[illegible] DIRECTOR OF MANUFACTURE MANAGEMENT DEPT

証明書番号
CERTIFICATE NO.: 373-0824-003 頁 PAGE: 1

鋼材検査証明書
INSPECTION CERTIFICATE

日付
DATE: AUG. 24

日新製鋼株式会社
大阪製造所
NISSHIN STEEL CO., LTD.
OSAKA WORKS

契約番号
CONTRACT NO.: 9-16-ON-373-2681-060

需要家
CUSTOMER: HUANG KANG METAL MFG CO., LTD.

注文者照合番号
REFERENCE NO.:

注文者
SHIPPER:

規格
SPECIFICATION: SK7 (SB)

品名
COMMODITY: COLD ROLLED STEEL SHEET IN COIL

寸法
SIZE: 1.60×914×C

製品番号 PACKAGE NO.	鋳塊番号 CAST NO.	管理番号 CONTROL NO.	員数 QUANTITY	質量 MASS	引張試験 TENSILE TEST YP N/mm² KG/mm²	TS	EL (Z)	曲げ試験 BEND TEST	硬さ試験 HARDNESS TEST (HV)	DECARBURIZED DM-S (50)	化学成分 CHEMICAL COMPOSITION (Z) C	Si	Mn	P	S	CU	NI	CR		
									MAX 180	MAX 30	60 - 70	MAX 35	MAX 60	MAX 30	MAX 30	MAX 25	MAX 25	MAX 30		
2	19396		2	11,219				GOOD	168.0 - 170.0	0.0 - 5.0	65	22	40	12	9	1	2	14		

合計 TOTAL 2 COIL 11,219KGS

備考 REMARKS

上記注文品は御指定の規格または仕様に従って製造され、その要求事項を満足していることを証明します。
WE HEREBY CERTIFY THAT THE MATERIAL HEREIN DESCRIBED HAS BEEN MANUFACTURED IN ACCORDANCE WITH THE STANDARDS AND SPECIFICATIONS SPECIFIED BY YOU AND THAT IT SATISFIES THE REQUIREMENTS.

文書中心 发行

T. Nakagawa
検査担当チームリーダー
MANAGER OF INSPECTION BRANCH

SGS

Test Report

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 铁丝 1018

SGS Ref No. : SZ050713984EC
Sample Receiving Date : JUL 19, 2005
Testing Period : JUL 19, 2005 TO JUL 25, 2005

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

Test Method : Lead content - In house method, with reference to EPA method 3050B: 1996 .
Cadmium content - In house method, with reference to BS EN1122: 2001 method B .
Mercury content - In house method, with reference to EPA 3052: 1996.
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.

RESULTS :

	No. 1	No. 2
Lead Content (Pb)	N.D.	N.D.
Cadmium Content (Cd)	N.D.	N.D.
Mercury Content (Hg)	N.D.	N.D.
Hexavalent Chromium Content [Cr(VI)]	N.D.	N.D.

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

SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch-Chemical Laboratory
中国·广州 天河区东圃…黄山路…工业园A栋… 邮编:510660

SGS

Test Report No. 2012293/EC Date : Feb 02 2005

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

Report on the submitted samples said to be PC.

SGS Job No.	:	1695299
SGS Ref. No.	:	SZECO050101122EC-2.1
Sample Receiving Date	:	JAN 22 2005
Testing Period	:	JAN 22-31 2005

Test Requested :
1) To determine the Cadmium Content in the submitted sample.
2) To determine the Lead Content on the submitted sample.
3) [illegible]
4) To determine the Hexavalent Chromium Content on the submitted sample.
5) Determination of PBBs (polybrominated biphenyls), PBDEs (Polybrominated diphenylethers) of the submitted sample.

Test Method :
1) With reference to BS EN 1122:2001, Method B, analysis was performed by Inductively Coupled Argon Plasma-Atomic Emission Spectrometry (ICP-AES).
2) As specified in EPA Method 3050B.
Analysis was performed by Inductively Coupled Argon Plasma-Atomic Emission Spectrometry (ICP-AES).
3) As specified in EPA Method 3052.
Analysis was performed by Inductively Coupled Argon Plasma-Atomic Emission Spectrometry (ICP-AES).
4) As specified in 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 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 Fung Mei, Miranda
Senior Manager

SGS

Test Report

No. 2012293/EC Date : Feb 02 2005

Test Results :

Element	Black Plastic (PC)
1) Cadmium (Cd)	3 ppm
2) Lead (Pb)	< 2 ppm
3) Mercury (Hg)	< 2 ppm
4) Hexavalent Chromium (Cr^{6+})	< 2 ppm

(Results shown are of the total weight of samples)

Note : < = Less than
ppm = mg/kg

5)

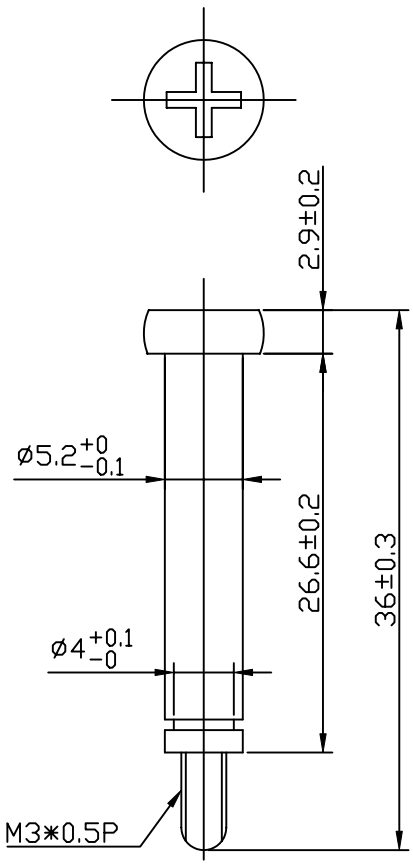
	Black Plastic (PC)	Detection Limit
Polybrominated Biphenyls (PBBs)	—	—
Monobromobiphenyl	ND	5 ppm
Dibromobiphenyl	ND	5 ppm
Tribromobiphenyl	ND	5 ppm
Tetrabromobiphenyl	ND	5 ppm
Pentabromobiphenyl	ND	5 ppm
Hexabromobiphenyl	ND	5 ppm
Heptabromobiphenyl	ND	5 ppm
Octabromobiphenyl	ND	5 ppm
Nonabromobiphenyl	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

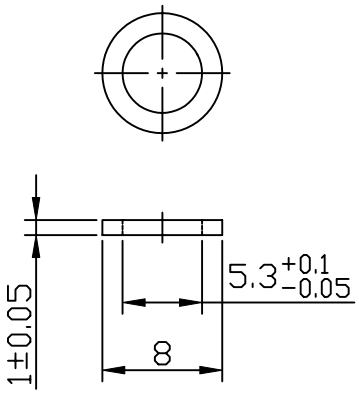
Note: ND = Not Detected
Non-detected is lower than detection limit value.

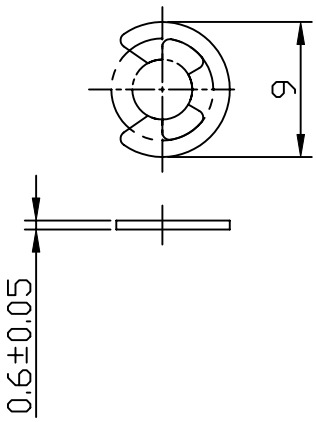
*** End of Report ***

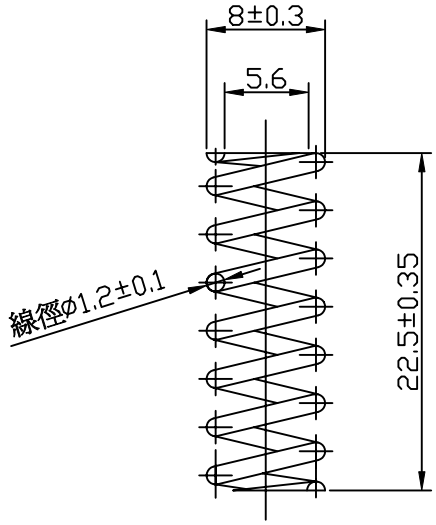
5/F - 8/F & 28/F 29/F Metropole Square, 2 On Yiu Street, Siu Lek Yuen, Shatin, N.T. Hong Kong t (852) 2334 4481 f (852) 2604 3120 www.hk.sgs.com

FROM : FAX NO. : Aug. 07 2004 14:10 P2









TOL ± / RANGE	M1	M2	S1	S2	P1	P2	C	URS
0~6	0.05	0.10	0.15	0.20	0.05	0.10	0.50	**0.20**
6~30	0.10	0.20	0.15	0.25	0.10	0.15	1.00	**0.25**
30~120	0.15	0.25	0.20	0.30	0.20	0.40	2.00	**0.45**
120~300	0.15	0.30	0.25	0.45	0.40	0.80	3.00	**0.80**
300~600	0.20	0.50	0.40	0.60	0.60	1.20	3.00	**1.20**
600~1200	0.30	0.80	0.70	1.10	0.80	1.50	4.00	**1.50**
ANG. TOL±	1°							

MODEL	JAS093C		NAME	Spring Screw Kit	--		
DRN	Joyce	08/03 2005	MATERIAL	---	REV.	DESCRIPTION	SIGN DATE
DSN	Joyce	08/03 2005	FINISH	---			
CKD	John	08/03 2005	CHIA CHERNE INDUSTRY CO.,LTD		DIM IN	mm	DO NOT SCALE DWG
APPD	Kevin	08/03 2005			SHEET	1	OF 1
					DRAWING NO.	JAS093C	

中國鋼鐵股份有限公司 CHINA STEEL CORPORATION

品質證明書 TEST CERTIFICATE

中華民國高雄市小港區中鋼路1號
LIN HAI INDUSTRIAL DISTRICT P.O.BOX 47
HSIAO KANG, KAOHSIUNG(812),
TAIWAN, REPUBLIC OF CHINA
TELEX: 71105, 71283, 71415 KAOHSIUNG
TEL.:(07)802-1111 FAX:(07)803-0927

B0170-02

客戶名稱 SOLD TO	春雨工廠股份有限公司 CHUN YU WORKS & CO., LTD. 1, CHIA HSIN RD., CHIA HSIN LI, KANG SHAN CHENG, KAO. HSIEN	產品名稱 PRODUCT	ROD-CARBON STEEL
		發票號碼 INVOICE NO.	證明書編號 CERTIFICATE NO. B702258
材料名稱 DESC.	AISI 1016, AL-KILLED (SCWQ2)	客戶編號 CUSTOMER NO. 88187108	中鋼訂單編號 CSC ORDER NO. JB5002Z
		交運日期 SHIPPING DATE	證明書日期 T/C ISSUE DATE
檢驗 INSP.	CSC MILL INSPECTION	T/C 02	客戶訂單編號 CUST ORDER NO. D01206

項目 ITEM NO.	產品序號 SEQ. NO.	尺寸及規格 MATERIAL DESCRIPTION 直徑/厚 DIA/THICK MM	寬度 WIDTH	長度 LENGTH MM	數量 QTY	質量 MASS KGS	爐號 HEAT NO.	拉伸試驗 *1 G.L.= 降伏 Y.S.	抗拉 T.S.	伸長 EL %
	SPECIFICATION									
005	D3851 01	7.00		COIL	12	17.713	3A683			
			TOTAL:		12	17.713				

化學成份 CHEMICAL ANALYSIS %

C	MN	P	S	SI	CU	NI	CR	MO	TOL AL	備註 REMARKS
2 X10	2 X10	3 X10			2 X10				3 X10	
15	60	30	50							
20	90	MAX	MAX							
18	74	20	9	7					66	

驗訖

NOTES
*C (1). CHEMICAL ANALYSIS IS CARRIED OUT BY CSC IN ACCORDANCE WITH TEST METHOD ASTM E415 AND E1019 WHICH CONFORM TO METAL STANDARDS AND SPECIFICATIONS.
(2) TEST SAMPLES ARE DISC TYPE (9) TEST REPORT RELATES ONLY TO THE SAMPLES BEING TESTED AND THAT SHALL NOT BE PARTIALLY REPRODUCED

SURVEYOR TO

本證明書所列產品，均依材料規格製造及試驗，並符合規格之要求。
WE HEREBY CERTIFY THAT MATERIAL DESCRIBED HEREIN HAS BEEN MANUFACTURED AND TESTED WITH SATISFACTORY RESULTS IN ACCORDANCE WITH THE REQUIREMENT OF THE ABOVE MATERIAL SPECIFICATION.

Yong Hsien Chang

QUALITY CERTIFICATION
品質證明書

Custermer 客戶	盈豪	Order NO.		Date 日期	2003/3/28
Specification 規格	SW-C 1.20mm	Process No. 製造工令	M30314	Q.A. Department 品保部	
Standard 依據標準	JIS G 3521				
Characteristic 項目	Diameter (mm) 線徑	Ovality (mm) 徑偏差	T.S. (kg/mm^2) 抗拉強度	Twist No.(turns) 扭轉數	Wrapping 捲挽測試
Standard Values 標準值	1.20(-0.015)	0.005MAX	195~220	30MIN	GOOD
Average results 測試平均值	1.193	0.003	203	45	N.A
Chemical Analysis 成份分析	C	Si	Mn	P	S
Standard Values 標準值	0.79~0.86	0.15~0.35	0.30~0.60	0.03MAX	0.03MAX
Test Results 測試平均值	0.83	0.22	0.49	0.018	0.008

PS : Wrapping test is suitable for the wire diameter less than 0.5mm.

註：捲挽測試適用線徑小於0.5㎜硬抽鋼線。

春逸工業股份有限公司 品保部

Spring Yi Industrial Co.,LTD

有限公司 春逸工業股份

SGS

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

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

Type of Product : SAE1018-Ni
Sample Received : 2004/07/27
Testing Date : 2004/07/27 TO 2004/08/03

Test Result

PART NAME NO.1 : SILVER COLORED METAL

Test Item (s):	Unit	Method	MDL	Result				
				No.1				
Chromium VI (Cr+6)	ppm	As per US EPA 7196A and US EPA 3060A.	2	N.D.				
Cadmium (Cd)	ppm	ICP-AES after as per EN 1122, method B:2001 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	27.3				

NOTE: (1) N.D. = Not detected (<MDL)
(2) ppm = mg/kg
(3) MDL = Method Detection Limit

Daniel Yen, M.R. / Operation Manager
Signed for and on behalf of
SGS TAIWAN LTD.

TW 0975158

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
Date : 2004/08/03

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

Test Item (s):	Unit	Method	MDL	Result				
				No.1				
Chromium VI (Cr+6)	ppm	As per US EPA 7196A and US EPA 3060A.	2	N.D.				
Cadmium (Cd)	ppm	ICP-AES after as per EN 1122, method B:2001 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	40.3				

NOTE: (1) N.D. = Not detected (<MDL)
(2) ppm = mg/kg
(3) MDL = Method Detection Limit

Daniel Yan, M.R. / Operation Manager
Signed for and on behalf of
SGS TAIWAN LTD.

TW 0975156

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/2005/90302
Date : 2005/09/07
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
Testing Date : 2005/08/31 TO 2005/09/07

==========

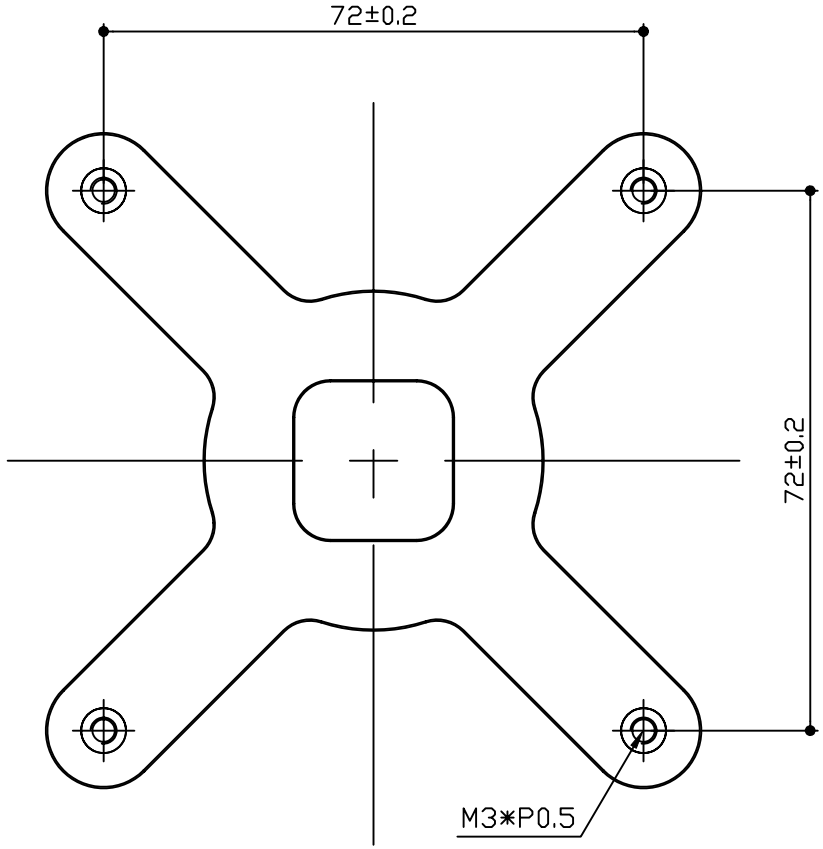
Test Result

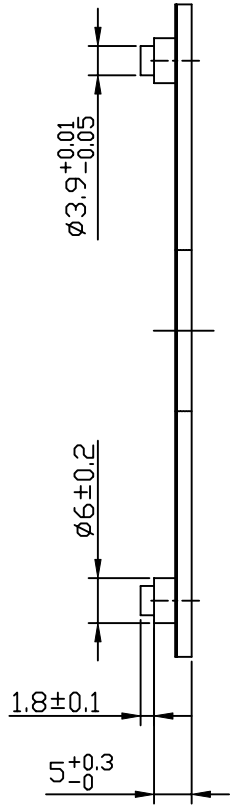
PART NAME NO.1 : SILVER COLORED METAL

Test Item (s):	Unit	Method	MDL	Result
				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

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





TOL ± / RANGE	M1	M2	S1	S2	P1	P2	C	URS
0~6	0.05	0.10	0.15	0.20	0.05	0.10	0.50	**0.20**
6~30	0.10	0.20	0.15	0.25	0.10	0.15	1.00	**0.25**
30~120	0.15	0.25	0.20	0.30	0.20	0.40	2.00	**0.45**
120~300	0.15	0.30	0.25	0.45	0.40	0.80	3.00	**0.80**
300~600	0.20	0.50	0.40	0.60	0.60	1.20	3.00	**1.20**
600~1200	0.30	0.80	0.70	1.10	0.80	1.50	4.00	**1.50**
ANG. TOL±	1°							

MODEL	JAT094	NAME	Base Plate	--
DRN	Fanny	08/07 2007	MATERIAL	---
DSN	John	08/07 2007	FINISH	---
CKD	Richard	08/07 2007	CHIA CHERNE INDUSTRY CO.,LTD	
APPD	Auric	08/07 2007		

REV.	DESCRIPTION	SIGN	DATE

DIM IN	mm	DO NOT SCALE DWG	
SHEET	1	OF	1
DRAWING NO.	JAT094		

品質證明書

燁隆企業股份有限公司
YIEH LOONG ENTERPRISE CO., LTD.

中華民國臺灣高雄縣燕巢鄉魚寮村魚寮路317號
317, YU LIAO ROAD, CHIAO TOU HSIANG, KAOHSIUNG HSIEN, TAIWAN, R.O.C.
TEL:(07)611-7171(12 LINES) FAX:(07)611-0504

客戶名稱 SOLD TO	[redacted]	證明書號碼 CERTIFICATE NO. 02040038	證明書日期 ISSUE DATE 2002-04-02
產品名稱 COMMODITY	冷軋鋼[illegible]	訂單號碼 ORDER NO.	交運日期 SHIPPING DATE 2002-04-01
產品規格 SPECIFICATION	JIS G3141 SPCC-SB(Q)C	客戶編號 CUSTOMER NO. B30137	發票號碼 INVOICE NO.

項目 ITEM NO	鋼捲編號 COIL NO.	試片號碼 SAMPLE NO.	尺寸規格 MATERIAL DESCRIPTION 厚度 THICK MM	寬度 WIDTH MM	長度 LENGTH MM	數量 QTY	重量 MASS KG	爐號 HEAT NO.	拉伸試驗 TENSILE TEST G.L.=50MM 降伏 Y.S. Mpa	抗拉 T.S. Mpa	伸長 EL. %	彎曲試驗 BEND TEST	硬度試驗 HARDNESS TEST HRB	化學成份 CHEMICAL COMPOSITION % C x 100	Mn x 100	Si x 100	P x 1000	S x 1000	Cu x 100	Ni x 100	Cr x 100	Mo x 100	V x 100	Al x 1000	N x 1000	Ti x 1000	Nb x 1000
	SPECIFICATION												DF														
01	131931A00T		.690	1229			9960	45553					56	5	32	1	17	7						39			
02	131357B00S		1.150	1219			9605	63865					58	3	29	2	14	10						37			
03	131358A00S		1.150	1219			9590	45939					60	3	27	1	15	8						55			
04	131392A00S		1.150	1219			9030	5T215					54	4	24	1	11	10						46			
05	131962A00S		.690	1219			8855	0254705					53	4	22	2	10	12						43			
06	131957A00S		.900	1219			9000	0254725					58	5	24	3	8	12						49			

備註 NOTE: TOTAL WEIGHT: 56130

DF:FOR REFERENCE ONLY

SUEVEYOR TO

茲證明本表所列製品，均依材料規格製造及試驗，並符合規格之要求。

WE HEREBY CERTIFY THAT MATERIAL DESCRIBED HEREIN HAS BEEN MANUFACTURED AND TESTED WITH SATISFACTORY RESULTS IN ACCORDANCE WITH THE REQUIREMENT OF THE ABOVE MATERIAL SPECIFICATION.

燁隆企業股份有限公司
YIEH LOONG ENTERPRISE CO., LTD.

簡洪儀

DEPUTY SUPERINTENDENT, COLD-ROLLING WORKS

Laminating Adhesives Data Page

FOD # 0330

3M™ 467MP Roll Laminating Adhesive
468MP Roll Laminating Adhesive

Product Construction

	Adhesive	Liner
467MP	2.0 mils (50 microns) #200MP “Hi-Performance” Acrylic Adhesive	4.0 mils (100 microns) 58# Tan Polycoated Kraft Paper
468MP	5.0 mils (125 microns) #200MP “Hi-Performance” Acrylic Adhesive	4.0 mils (100 microns) 58# Tan Polycoated 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.

Physical Properties

(Typical values – not for specification use)

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

		20 Min. Dwell	
	Product	**Oz./In. N/100 mm**	
- Metal (Stainless Steel)	467MP	44	48
	468MP	59	64
- High Surface Energy Plastic (ABS)	467MP	40	44
	468MP	52	57

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

		72 Hr. Dwell		Ultimate Bond	
	Product	**Oz./In. N/100 mm**		**Oz./In. N/100 mm**	
- Metal (Stainless Steel)	467MP	82	90	113	124
	468MP	109	119	178	194
- High Surface Energy Plastic (ABS)	467MP	47	51	43	47
	468MP	61	67	58	63
- Low Surface Energy Plastic (Polypropylene)	Not Recommended				

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 Resistance:	Bond strength generally increases after cycling four times through: 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

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

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

建立日期:2003/9/30

汎瑋企業有限公司

TRAN-SUN INTERNATIONAL COMPANY LTD

Faxmessage

Number of pages:1

ATTN：

Tel No：

Fax No：

E-mail：transsun@ms55.hinet.net

Phone：886-4-23592471.23504239

Fax：886-4-23592446

1F NO68.1RD TAICHUNG INDUSTRIAL PARK

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	ˇ□不透明 □ 透明 ˇ□霧面
比　　重	1.4± 3% ˇ□ 含 □不含色料 (ASTM D-792-66)
拉力強度	350 - 450 KG/Cm² (min) (ASTM D 638/882)
落球強度	2.5 - 5.0 lb-in/mil
伸 長 率	80 - 120 % (min) (ASTM D 638/882)
耐衝擊強度	3.8 - 4.8 KG• CM/ Cm² (min) ASTM D 256-54T
熱變形強度	58 - 80 °C(min) (ASTM D 1637)
透 明 度	******** % (min)
備　　註	1. 忌潮、溼氣、日曬！！ 2. 本測試僅提供參考(實驗室測試)

SGS

IAS 093C-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

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

Type of Product : SAE1018-Ni
Sample Received : 2004/07/27
Testing Date : 2004/07/27 TO 2004/08/03

===

Test Result

PART NAME NO.1 : SILVER COLORED METAL

Test Item (s):	Unit	Method	MDL	Result				
				No.1				
Chromium VI (Cr+6)	ppm	As per US EPA 7196A and US EPA 3060A.	2	N.D.				
Cadmium (Cd)	ppm	ICP-AES after as per EN 1122, method B:2001 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	27.3				

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.

TW 0975158

SGS

IAL0973C-2

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
Date : 2004/08/03

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

Test Item (s):	Unit	Method	MDL	Result				
				No.1				
Chromium VI (Cr+6)	ppm	As per US EPA 7196A and US EPA 3060A.	2	N.D.				
Cadmium (Cd)	ppm	ICP-AES after as per EN 1122, method B:2001 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	40.3				

NOTE: (1) N.D. = Not detected (<MDL)
(2) ppm = mg/kg
(3) MDL = Method Detection Limit

Daniel Yin, M.R. / Operation Manager
Signed for and on behalf of
SGS TAIWAN LTD.

TW 0975156

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/2005/90302
Date : 2005/09/07
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
Testing Date : 2005/08/31 TO 2005/09/07

==========

Test Result

PART NAME NO.1 : SILVER COLORED METAL

Test Item (s):	Unit	Method	MDL	Result
				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

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

中國鋼鐵 China Steel

1215-6.35

94.06.03

品質證明書 TEST CERTIFICATE

中國鋼鐵股份有限公司
CHINA STEEL CORPORATION
中華民國高雄市小港區中鋼路1號
1 CHUNG KANG ROAD HSIAO KANG, KAOHSIUNG(812)
TAIWAN, REPUBLIC OF CHINA.
TEL:(07)802-1111 FAX:(07)802-2511,(07)801-9427

90390-01 03/4

客戶名稱 SOLD TO	晉綠工業股份有限公司 CAME LIA METAL CO., LTD. 8 SEC. 2, CHUNG HWA RD., CHUNG LI, TAOYUAN	產品名稱 PRODUCT	ROD-REPHOSPHORIZED&RESULFURIZED STEEL
規格名稱 SPEC	SAE 1215MS (STOD)	接單號碼 ORDER NO.	PE54600714
		證明書編號 CERTIFICATE NO.	9406058D050
		客戶編號 CUSTOMER ID	30826519
		中鋼訂單編號 CSC ORDER NO.	0411145
		交運日期 SHIPPING DATE	JUN. 08, 2005
		證明書日期 T/C ISSUE DATE	JUN. 09, 2005
檢驗 INSP.	CSC MILL INSPECTION	T/C	01
		客戶訂單編號 CUSTOMER ORDER NO.	

項目 ITEM NO	產品序號 SER. NO	直徑/厚 DIA/THICKN. MM	寬度 WIDTH	長度 LENGTH MM	數量 QTY	質量 MASS KGS	爐號 HEAT NO.	降伏 Y.S	抗拉 T.S	伸長 EL %	C (X10^2)	Mn (X10^2)	P (X10^3)	S (X10^3)	Si	Cu	Ni (X10^2)	Cr	Mo	T.Al (X10^3)	備註 REMARKS
SPECIFICATION											5	110	40	090							
											MAX 14	140	90	[illegible]							
01	CP063 01	8.00		COIL	6	8,721	2R858				8	120	45	[illegible]							
	CP063 02				6	7,340	1F2A3				7	110	61	[illegible]							
			TOTAL		11	16,005															

註釋 NOTES

成分查符 [stamp]

SURVEYOR TO

茲證明本表所列產品,均依材料規格製造及試驗,並符合規格之要求。
WE HEREBY CERTIFY THAT MATERIAL DESCRIBED HEREIN HAS BEEN MANUFACTURED AND TESTED WITH SATISFACTORY RESULTS IN ACCORDANCE WITH THE REQUIREMENT OF THE ABOVE MATERIAL SPECIFICATION.

YC Huang
品管技術處處長 GENERAL MANAGER, METALLURGICAL DEPARTMENT

TEST REPORT NUMBER : THJ0013374

APPLICANT: TONG YU INDUSTRY CO., LTD
NO2-32 LANE 518
SEC 3 CHUNGSHAN RD
CHANGHUA CITY CHANGHUA COUNTY 500
TAIWAN R.O.C.

DATE : JAN 06, 2006

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:
AS REQUESTED BY THE APPLICANT, FOR DETAILS PLEASE REFER TO ATTACHED PAGES.
****

PREPARED AND CHECKED BY:
FOR INTERTEK TESTING SERVICES
TAIWAN LIMITED

JACOB LIN
GENERAL MANAGER

Intertek Testing Services Taiwan Ltd.
8/F., No. 423, Ruiguang Road, Neihu District, Taipei 114, Taiwan, R.O.C.
全國公證檢驗股份有限公司
114 台北市內湖區瑞光路 423 號 8 樓
Tel: (+886-2) 6602-2888 2797-8885 Fax: (+886-2) 6602-2410

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^{6+}) CONTENT	ND

REMARKS : ppm = PARTS PER MILLION
ND = NOT DETECTED

(B) TEST METHOD :

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

REMARK : REPORTING LIMIT = QUANTITATION LIMIT OF ANALYTE IN SAMPLE

****

END OF REPORT

Intertek Testing Services Taiwan Ltd.
8/F., No. 423, Ruiguang Road, Neihu District, Taipei 114, Taiwan, R.O.C.
全國公證檢驗股份有限公司
114 台北市內湖區瑞光路 423 號 8 樓
Tel: (+886-2) 6602-2888 2797-8885 Fax: (+886-2) 6602-2410

Test Report

3M TAIWAN LTD.
NO.66, LANE 800, CHUNG SHAN S. RD, YANGMEI,
TAOYUAN HSIEN, TAIWAN, R.O.C.

Report No : CE/ 2004/ 32425
Date : 2004/ 03/ 19

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 -

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

Test Report

3M TAIWAN LTD.
NO.66, LANE 800, CHUNG SHAN S. RD, YANGMEI,
TAOYUAN HSIEN, TAIWAN, R.O.C.

Report No : CE/2004/32425
Date : 2004/03/19

Test Result

PART NAME NO.1 : TRANSPARENT DOUBLE TAPE

Test Item(s):	Unit	Method	MDL	Result				
				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.

SGS

Test Report

To. 李品儀 小姐
From: 汎偉

報告號碼 : CE/2005/62169A
日期 : 2005/06/16
頁數 : 1 of 4

以下測試樣品乃供應商所提供及確認：

樣品名稱	:	PVC硬質膠布
收件日期	:	2005/06/09.
測試日期	:	2005/06/09 TO 2005/06/16

測試結果 : - 請見下一頁 -

Daniel Yen, M.E. / Operation Manager
Signed for and on behalf of
SGS TAIWAN LTD.

SGS

Test Report

To 李品儀 小姐

From: 汎璋

報告編號 : CE/2005/62169A
日期 : 2005/06/16

測試結果

測試部位 NO.7 : 透明塑膠片(請參照附件圖片)

測試項目 :	單位	測試方法	偵測極限值	結果 NO.7
一溴聯苯	%	本測試參考USEPA3540C 或 USEPA3550C方法，以氣相層析儀/質譜儀(GC/MS)或高效液相層析儀/二極體陣列偵測器/質譜儀(HPLC/UAD/MS)檢測之(參考歐盟規範 2002/95/EC (RoHS), 83/264/EEC, 76/769/EEC)	0.0005	N.D.
二溴聯苯	%		0.0005	N.D.
三溴聯苯	%		0.0005	N.D.
四溴聯苯	%		0.0005	N.D.
五溴聯苯	%		0.0005	N.D.
六溴聯苯	%		0.0005	N.D.
七溴聯苯	%		0.0005	N.D.
八溴聯苯	%		0.0005	N.D.
九溴聯苯	%		0.0005	N.D.
十溴聯苯	%		0.0005	N.D.
多溴聯苯(PBBs)/以上總和	%		-	N.D.
一溴聯苯醚	%	本測試參考USEPA3540C 或 USEPA3550C方法，以氣相層析儀/質譜儀(GC/MS)或高效液相層析儀/二極體陣列偵測器/質譜儀(HPLC/DAD/MS)檢測之(參考歐盟規範 2002/95/EC (RoHS), 83/264/EEC, 76/769/EEC)	0.0005	N.D.
二溴聯苯醚	%		0.0005	N.D.
三溴聯苯醚	%		0.0005	N.D.
四溴聯苯醚	%		0.0005	N.D.
五溴聯苯醚	%		0.0005	N.D.
六溴聯苯醚	%		0.0005	N.D.
七溴聯苯醚	%		0.0005	N.D.
八溴聯苯醚	%		0.0005	N.D.
九溴聯苯醚	%		0.0005	N.D.
十溴聯苯醚	%		0.0005	N.D.
多溴聯苯醚(PBDEs)/以上總和	%		-	N.D.

NO. 136-1, Wu Kung Road, Wuku Industrial Zone, Taipei county, Taiwan.

To 李品儀小姐

From : 泓瑋

Test Report

報告號碼 : CE/200
日期 : 2005/0

測試項目 :	單位	測試方法	偵測極限值	結果 NO.1
六價鉻	ppm	依照US EPA 3060A方法，用UV-VIS做分析	2	N.D.
鎘	ppm	依照 EN1122 方法B:2001或其他酸消化方法，用感應耦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，用感應耦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，用感應耦合電漿原子發射光譜儀(ICP-AES)做分析	2	N.D.

附註：(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)
(4) " -" = Not Regulation / 無規格值

Test Report

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 : 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

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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	偵測極限值	結果
				NO.1
六價鉻	ppm	依照US EPA 3060A方法, 用UV-VIS做分析	2	N.D.
鎘	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)

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

Test Report

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

DOW CORNING TORAY SILICONE

TECHNICAL INFORMATION

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	4.8×10^{14}
Dielectric Strength		kV / 2.5mm	22

Properties of SC102 in comparison with SH340

Properties	SC102	SH340 [a]
Swelling of Silicone JCR [b] Volume increase	0.9%	3.0%
Oil bleed on alminum plate 120°C / 24hrs	None	observed
Appearance after heating 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

Test Report

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 : 1 of 4

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
Testing Date	:	2005/08/09 TO 2005/08/15

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Test Result : - Please see the next page -

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

Test Report

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

Test Result

PART NAME NO.1 : WHITE COLLOID (PLEASE REFER TO THE PHOTO ATTACHED)

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

Test Report

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

Test Item (s):	Unit	Method	MDL	Result
				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

Test Report

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