

RoHS Report

Customer : 安達康

Customer P/N : 709002

Wingsonic P/N : MRA258

Description : 2x2.5" Searial ATA Internal HDD-ROM

Preparation Date : 2008.02.21

Customer Approval	Approved	Checked	Prepared
	Raymond	Cindy Yu	Wuqiang
	2008.02.21	2008.02.21	2008.02.21

Contents

01.Spring 1(压簧/拉簧)RoHS Report.....	Page(3~5)
02.Silk Print(天那水/洗网水/油墨) RoHS Report.....	Page(6~10)
03.Nickel Plated Screw(环保镍螺丝) RoHS Report.....,...	Page(11~12)
04.Electric Plated Screw(环保镍螺丝电镀) RoHS Report..	Page(13~21)
05.Joint L4(连接片 L4) RoHS Report.....	Page(22~25)
06.HDD Spring(HDD 弹片) RoHS Report.....	Page(26~28)
07.SUS304 Lock spring(紧锁弹片) RoHS Report.....	Page(29~31)
08.SUS430 Chassis & Wing(不锈钢) RoHS Report.....	Page(32~34)
09.ABS757 RoHS Report.....	Page(35~39)
10.PA46 RoHS Report.....	Page(40~44)
11.PPS RoHS Report.....	Page(45~54)
12.C5210 Copper(端子磷青铜) RoHS Report.....	Page(55~60)
13.Terminal & PCB RoHS REPORT.....	Page(61~98)

测试报告

编号: GZ0703030605/CHEM

日期: 2007年3月15日 页码 1 of 3

江苏云裕金属制品有限公司

以下测试之样品是由申请者所提供及确认: 碳素弹簧钢丝

SGS 参考编号

: SZ10285036

收板日期

: 2007年3月9日

测试日期

: 2007年3月9日至2007年3月15日

测试要求: 委托测试样品中的铜, 铅, 汞和六价格的含量。

测试方法

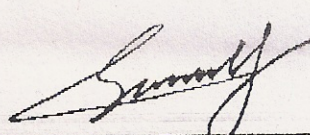
: 参照 IEC 62321 Ed.1 111/54/CDV 电子电器产品中限用物质含量的测定程序

- (1) 用 ICP 测定铜的含量
- (2) 用 ICP 测定铅的含量
- (3) 用 ICP 测定汞的含量
- (4) 用比色法测定六价格的含量

测试结果

: 请参见下一页

Signed for and on behalf of:
SGS-CSTC Ltd.


Huang Fang, Sunny
Sr. Engineer

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SGS-CSTC Standards Technical Service Co., Ltd.
Guangzhou Branch

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GZCM1161083

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测试报告

号: GZ0703030605/CHEM

日期: 2007年3月15日 页码 2 of 3

测试结果 (单位: 毫克/千克):

测试项目	参考方法	No.	MDL
镉 (Cd)	(1)	N.D.	2
铅 (Pb)	(2)	N.D.	2
汞 (Hg)	(3)	N.D.	2
点测试法测六价铬 (Cr VI)	(4)	Negative	参见注释 4

测试部位描述:

No.1 银灰色金属线

注释: 1. 毫克/千克 = ppm

2. N.D. = 未检出 (< MDL)

3. MDL = 方法检测限

4. 点测试:

Negative = 未检测到六价铬, Positive = 检测到六价铬;

(如果点测试结果不能确认, 测试样品将进一步由沸水萃取法进行测试);

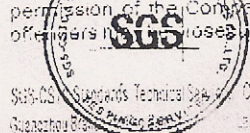
沸水萃取法:

Negative = 未检测到六价铬

Positive = 检测到六价铬: 每 50cm² 表面积的被测试样品的沸水萃取液中六价铬的浓度等于或大于 0.02mg/kg.

5. 本测试报告内容是参照报告编号为 GZ0703030604/CHEM 的中文译本, 中英文版本如有歧异, 概以英文版为准。

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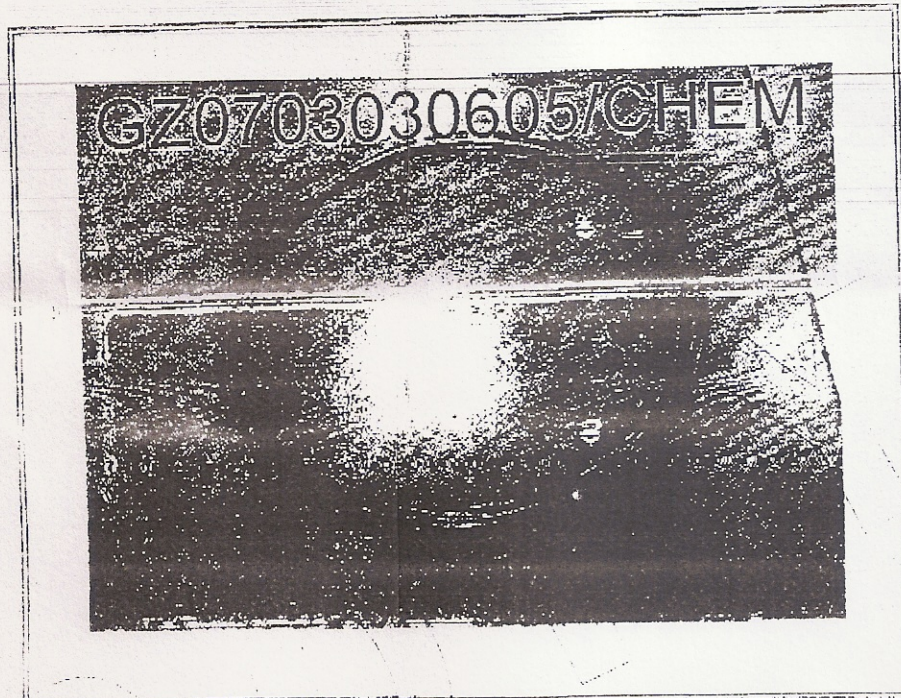
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GZCM1161082

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样品照片:



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*** 报告完 ***

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GZCM1161081

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WPKH



丝印

(天那水、洗网水)

Test Report

No.: GZ0705068929/CHEM

Date: MAY 22, 2007

Page 1 of 3

SHEN ZHEN FINE CHEMICAL CO., LTD

NO. A PEACE, BUILDING, RENMIN BEI RD, LONGHUA TOWN, BAOAN DISTRICT, SHENZHEN

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

Client Reference: BCS, CYC, MEK, TOL, ACE, XYL, ETHANOL, MC, CAC, IPA, AC-801-809, BS-501-509, A01-A09, 6#, 718, 783, 719, 338, 866, 8100, 756, 303, S-23, PP-80, S-50B, 241, 9100, 318, 818

SGS Ref No. : SZ10373829

Sample Receiving Date : MAY 16, 2007

Testing Period : MAY 16, 2007 TO MAY 22, 2007

Test Requested : To determine the Cadmium, Lead, Mercury, Hexavalent Chromium, PBBs (Polybrominated Biphenyls) & PBDEs (Polybrominated Diphenylethers) content in the submitted sample.

Test Method : With reference to IEC 62321 Ed.1 111/54/CDV
Procedures for the Determination of Levels of Regulated Substances in Electrotechnical Products

- (1) Determination of Cadmium by ICP.
- (2) Determination of Lead by ICP.
- (3) Determination of Mercury by ICP.
- (4) Determination of Hexavalent Chromium by Colorimetric Method.
- (5) Determination of PBBs and PBDEs by GC-MS.

Test Results : Please refer to next page.

Signed for and on behalf of
SGS-CSTC Ltd.Jiang YongPing, Terry
Sr. Engineer



Test Report

No.: GZ0705068929/CHEM

Date: MAY 22, 2007

Page 2 of 3

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

Test Item(s):	Method (refer to)	No.1	MDL
Cadmium(Cd)	(1)	N.D.	2
Lead (Pb)	(2)	N.D.	2
Mercury (Hg)	(3)	N.D.	2
Hexavalent Chromium (CrVI) by alkaline extraction	(4)	N.D.	2
Sum of PBBs	(5)	N.D.	-
Monobromobiphenyl		N.D.	5
Dibromobiphenyl		N.D.	5
Tribromobiphenyl		N.D.	5
Tetrabromobiphenyl		N.D.	5
Pentabromobiphenyl		N.D.	5
Hexabromobiphenyl		N.D.	5
Heptabromobiphenyl		N.D.	5
Octabromobiphenyl		N.D.	5
Nonabromobiphenyl		N.D.	5
Decabromobiphenyl		N.D.	5
Sum of PBDEs		N.D.	-
Monobromodiphenyl ether		N.D.	5
Dibromodiphenyl ether		N.D.	5
Tribromodiphenyl ether		N.D.	5
Tetrabromodiphenyl ether		N.D.	5
Pentabromodiphenyl ether		N.D.	5
Hexabromodiphenyl ether		N.D.	5
Heptabromodiphenyl ether		N.D.	5
Octabromodiphenyl ether		N.D.	5
Nonabromodiphenyl ether		N.D.	5
Decabromodiphenyl ether		N.D.	5

Test Part Description:

No.1 Silver-gray wet paint

Note : 1. mg/kg = ppm

2. N.D. = Not Detected (< MDL)

3. MDL = Method Detection Limit

4. "-" = Not regulated

PAGE NOT SENT

RESULT

PAGE

TIME

MODE

ADDRESS

FILE PERSONAL NAME

UNIT 077

9057487339109

TS

0.59

P

I

E

 **Intertek Labtest**

移印 (油墨)

TEST REPORT

NUMBER: SZHJ078401

APPLICANT: SHENZHEN BAO AN DISTRICT FU YONG
TOWN CAI LI FENG SI YING CAI LIAO
HANG
NO. 318, YUHUA YUAN WESTERN ROAD,
BAISHIHE WEST ZONE, FUYONG TOWN,
BAOAN DISTRICT, SHENZHEN CITY.

DATE: DEC 11, 2006

ATTN: XIANG WEI FENG

SAMPLE DESCRIPTION:

ONE (1) SUBMITTED SAMPLE SAID TO BE WHITE PAINT.

MATERIAL NAME : INK.

MATERIAL NO. : 110, 102, 203, 206, 209, 300, 302, 303, 3038,
305, 401, 403, 404, 406, 408, 501, 601, 701, 131,
133, 134, 140, 148, 159, 160, 161, 800, 801, 804,
901. PP-112, CLF-05, CLF-236, CLF-06, CLF-129.APPLICANT'S : ABS, PS, PB, PV, SPB, WPU, PY, PP, SPA, PET, PVB,
REFERENCE. PU, PVAMATERIAL COMPANY : SHENZHEN BAOAN DISTRICT FUYONG TOWN CAI LI FENG
SI YING CAI LIAO HANG.

TESTS CONDUCTED:

AS REQUESTED BY THE APPLICANT, FOR DETAILS REFER TO ATTACHED PAGE(S)

REMARK : AS PER THE APPLICANT REQUEST, ALL TESTING DID NOT CONDUCT IN
REPORT SZHJ078401, THE RESULTS IN REPORT SZHJ078401 WERE
REFERRED TO PREVIOUS REPORT SZHJ06014001.

AUTHORIZED BY:
FOR INTERTEK TESTING SERVICES
SHENZHEN LTD.



BEN N.L. LIN
GENERAL MANAGER

Intertek Labtest

TEST REPORT

NUMBER: SZHJ078401

TESTS CONDUCTED

(A) TEST RESULT SUMMARY :

TESTING ITEM	RESULT	LIMITS OF SAMSUNG (ppm)	
CADMIUM (Cd) CONTENT (ppm)	ND (<2)	ORGANIC <5	INORGANIC <80
LEAD (Pb) CONTENT (ppm)	27	ORGANIC <100	INORGANIC <800
MERCURY (Hg) CONTENT (ppm)	ND (<2)	<800	
CHROMIUM (VI) (Cr ⁶⁺) CONTENT (ppm)	ND (<1)	<800	

ppm = PARTS PER MILLION BASED ON DRY WEIGHT OF SAMPLE

< = LESS THAN

ND = NOT DETECTED

(B) TEST RESULT SUMMARY :

TESTING ITEM	RESULT	LIMITS OF SAMSUNG
POLYBROMINATED BIPHENYLS (PBB) IN ppm		
MONOBROMOBIPHENYL (MonoBB)	ND	<800
DIBROMOBIPHENYL (DiBB)	ND	
TRIBROMOBIPHENYL (TriBB)	ND	
TETRABROMOBIPHENYL (TetraBB)	ND	
PENTABROMOBIPHENYL (PentaBB)	ND	
HEXABROMOBIPHENYL (HexaBB)	ND	
HEPTABROMOBIPHENYL (HeptaBB)	ND	
OCTABROMOBIPHENYL (OctaBB)	ND	
NONABROMOBIPHENYL (NonaBB)	ND	
DECABROMOBIPHENYL (DecaBB)	ND	
POLYBROMINATED DIPHENYL ETHERS (PBDE) IN ppm		
MONOBROMODIPHENYL ETHER (MonoPBDE)	ND	<800
DIBROMODIPHENYL ETHER (DiPBDE)	ND	
TRIBROMODIPHENYL ETHER (TriPBDE)	ND	
TETRABROMODIPHENYL ETHER (TetraPBDE)	ND	
PENTABROMODIPHENYL ETHER (PentaPBDE)	ND	
HEXABROMODIPHENYL ETHER (HexaPBDE)	ND	
HEPTABROMODIPHENYL ETHER (HeptaPBDE)	ND	
OCTABROMODIPHENYL ETHER (OctaPBDE)	ND	
NONABROMODIPHENYL ETHER (NonaPBDE)	ND	
DECABROMODIPHENYL ETHER (DecaPBDE)	ND	

ppm = PARTS PER MILLION BASED ON DRY WEIGHT OF SAMPLE

ND = NOT DETECTED

Intertek Labtest**TEST REPORT**

NUMBER: SZHJ078401

TESTS CONDUCTED**(C) TEST METHOD :**

TESTING ITEM	TESTING METHOD	REPORTING LIMIT
CADMIUM (Cd) CONTENT	WITH REFERENCE TO BS EN1122/ US EPA 3050B/ US EPA3052, BY ACID DIGESTION AND DETERMINED BY ICP-OES	2 ppm
LEAD (Pb) CONTENT	WITH REFERENCE TO US EPA 3050B/US EPA 3052, BY ACID DIGESTION AND DETERMINED BY ICP - OES	2 ppm
MERCURY (Hg) CONTENT	WITH REFERENCE TO US EPA 3052, BY ACID DIGESTION AND DETERMINED BY ICP - OES	2 ppm
CHROMIUM (VI) (Cr ⁶⁺) CONTENT	WITH REFERENCE TO US EPA 3060A & 7196A, BY ALKALINE DIGESTION AND DETERMINED BY UV-VIS SPECTROPHOTOMETER	1 ppm
POLYBROMINATED BIPHENYLS (PBB) & POLYBROMINATED DIPHENYL ETHERS (PBDE)	WITH REFERENCE TO US EPA 3540C, BY SOLVENT EXTRACTION AND DETERMINED BY GC/MS AND HPLC	5 ppm

DATE SAMPLE RECEIVED : AUG 11, 2006

TESTING PERIOD : AUG 11, 2006 TO AUG 16, 2006 & OCT 10, 2006 TO OCT 11, 2006

END OF REPORT

Test Report

No.: SZTYR060412348/LP

Date: APR 30, 2006

Page 1 of 1

JIA HUI METAL PRODUCTS CO., LTD.
LU DONG DONG HUAN SECOND ROAD,
HU MEN TOWN, DONGGUAN CITY, GUANGDONG PROVINCE

Report on the submitted samples said to be 环保镍螺丝

SGS Ref No. : 060418787RS-4.2
Model No. : N 压花 4X 20 ISO
Material : C - 1018
Main Substance : C, Mn, P, S, Si, Al
Buyer : SONY
Supplier : 宝盛线材厂, 银峰电镀厂
Sample Receiving Date : APR 24, 2006
Testing Period : APR 24, 2006 TO APR 28, 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 screw	Detection Limit
1) Lead (Pb)	91	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 50cm² sample is less than the detection limit.
When using method of IEC 111-9.7.2, the detection limit of Cr(VI) in solution is 0.02 mg/kg with 50cm² sample surface area used.

*** End of Report ***

Signed for and on behalf of
SGS-CSTC Ltd.

Zhang Yanzheng, Helen
Sr. Section Manager



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Test Report

No.: SZTYR060412349/LP

Date: APR 30, 2006

Page 1 of 1

JIA HUI METAL PRODUCTS CO., LTD.
LU DONG DONG HUAN SECOND ROAD,
HU MEN TOWN, DONGGUAN CITY, GUANGDONG PROVINCE

Report on the submitted samples said to be 三价黑锌螺丝

SGS Ref No. 050418787RS-4.3
Model No. P3 x 12 TAP
Material C-1018
Main Substance C, Mn, P, S, Si, Al
Buyer SONY
Supplier 宝盛线材厂, 银峰电镀厂
Sample Receiving Date APR 24, 2006
Testing Period APR 24, 2006 TO APR 28, 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.

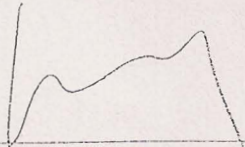
Test Method : 1) With reference to EPA 3050B:1996 / Other acid digestion. Analysis was performed by Atomic Absorption Spectrometer (AAS).
2) With reference to EN 1122:2001 / Other acid digestion. Analysis was performed by Atomic Absorption Spectrometer (AAS).
3) With reference to EPA Method 3052: 1996 / 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.

Element	Black colored metal screw	Detection Limit
1) Lead (Pb)	41	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 50cm² sample is less than the detection limit.
When using method of IEC 111-9.7.2, the detection limit of Cr(VI) in solution is 0.02 mg/kg with 50cm² sample surface area used.
- Photo Appendix is included.

*** End of Report ***

Signed for and on behalf of
SGS-CSTC Ltd.


Zhang Yanzheng, Helen
Sr. Section Manager



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SGS

螺丝电镀

Test Report

No.: SZTYR061138085/LP

Date: NOV 29, 2006

Page 1 of 3

**YONGFU HARDWARE FACTORY HUAFU WORKSHOP
ZHONGXIN COUNTRY, PINGDI TOWN, SHENZHEN CITY**

Report on the submitted samples said to be 环保滚镀镍

Sample Receiving Date : NOV 23, 2006

Testing Period : NOV 23, 2006 TO NOV 28, 2006

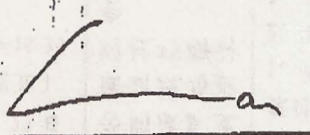
Test Requested : In accordance with the RoHS Directive 2002/95/EC, and its amendment directives.

Test Method : With reference to IEC 62321, Ed.1 111/54/CDV
Procedures for the Determination of Levels of Regulated Substances in
Electrotechnical Products.

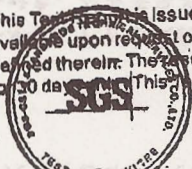
- (1) Determination of Lead & Cadmium by AAS.
- (2) Determination of Mercury by ICP.
- (3) Determination of Hexavalent Chromium by boiling water extraction.

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

Conclusion : Based on the performed tests on submitted samples, the results comply with the
RoHS Directive 2002/95/EC and its subsequent amendments.

Signed for and on behalf of
SGS-CSTC Ltd.
LI Ying, Susan
Section Manager

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Test Report

No.: SZTYR061138085/LP

Date: NOV 29, 2006

Page 2 of 3

Test Results: (unit: ppm)

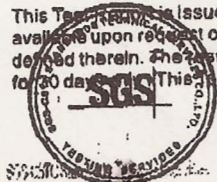
Test Item(s)	Method (refer to)	Silver color metal part	MDL	RoHS Limit
Lead (Pb)	(1)	76	2	1000
Cadmium (Cd)	(1)	N.D.	2	100
Mercury (Hg)	(2)	N.D.	2	1000
Hexavalent Chromium (CrVI) by boiling water extraction	(3)	Negative	See Note (4)	#

Note:

- (1) mg/kg = ppm
- (2) MDL = Method Detection Limit
- (3) N.D. = Not Detected (lower than MDL)
- (4) Boiling-water-extraction:
Negative = Absence of Cr(VI) coating, Positive = Presence of Cr(VI) coating.
(The detected concentration in boiling-water-extraction solution is equal or greater than 0.02 mg/kg with 50 cm² sample surface area.)
- (5) # = Positive indicates the presence of Cr(VI) on the tested areas and result be regarded as conflict with RoHS requirement.
Negative indicates the absence of Cr(VI) on the tested areas and result be regarded as no conflict with RoHS requirement.
- (6) The maximum permissible limit is quoted from the document 2005/618/EC amending RoHS directive 2002/95/EC.



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TEL: 86-755-83106166

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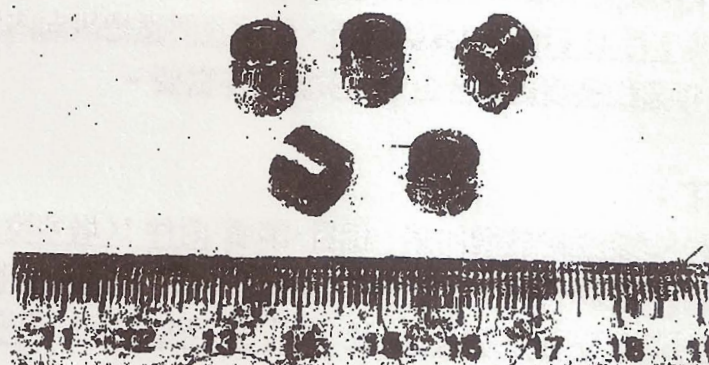
Sample(s) of this Report is/are held by the Company

SGS**Test Report**

No.: SZTYR061138085/LP

Date: NOV 29, 2006

Page 3 of 3

Sample Photo:

SGS authenticate the photo on original report only

*** End of Report ***

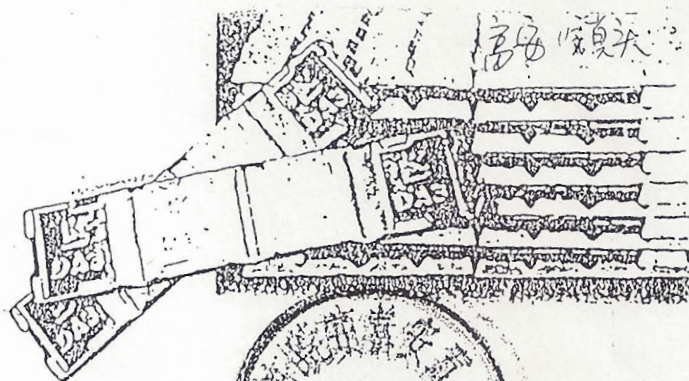


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合利五金

8 號 鋅 · 合 金



化學成份 Chemical Composition			
元素 Element			國際標準 ASTM B240
鋁	Aluminium	(Al)	3.9 - 4.3%
鎂	Magnesium	(Mg)	0.025 - 0.05%
銅	Copper	(Cu)	≤0.10%
鐵	Iron	(Fe)	≤0.075%
鉛	Lead	(Pb)	≤0.004%
錫	Tin	(Sn)	≤0.002%
鎘	Cadmium	(Cd)	≤0.003%
鋅	Zinc	(Zn)	餘量 Balance

物理性能 Physical Properties		
密度	Density (g/cm ³ @21°C)	6.60
溶點範圍	Melting Range	381-387°C
凝固收縮	Solidification Shrinkage	1.17%
熱膨脹率	Thermal Expansion (m/mm/°C@20-100°C)	27.4
比熱	Specific Heat Capacity (J/kg/°C@20-100°C)	418.7
導熱率	Thermal Conductivity (W/m ² /hr/m/°C@70-140°C)	113.0
導電率	Electrical Conductivity (%IACS)	27
電阻率	Electrical Resistivity (μohm-cm@20°C)	6.3694

機械性能 Mechanical Properties		
極限抗拉強度	Ultimate Tensile Strength	283MPa
延伸率	Elongation (% in 51mm)	10%
硬度	Hardness (Brinell 500kg)	82
抗剪強度	Shear Strength	214MPa
抗壓屈服強度	Compressive Yield Strength	414MPa
抗衝擊強度	Impact Energy (Unnotched bar 6.35x6.35mm)	58
疲勞強度	Fatigue Strength (5x10 ⁸ Cycles)	48MPa

包裝 Packing	長 x 寬 x 高 L x W x H	平均重量 Average Mass	數量 Quantity
每扎合金 Bundle	960mm x 480mm x 513mm	1032kg	
合金錠 Ingot	480mm x 110mm x 36mm	9.5kg	104
合金腳 Foot Slab	463mm x 382mm x 110mm	22kg	2



富

锁头+锁
材质

Test Report

No.: GZ0602011397/CHEM

Date: FEB 14, 2006

Page 1 of 1

FU AN HARDWARE & PLASTIC FACTORY

ZHU SHAN INDUSTRIAL ZONE, LIAN FENG ROAD, CHANG AN TOWN, DONG GUAN

Report on the submitted sample said to be 锁具+配件(锌合金)

SGS Ref No. : SZ060203720RS-4.1
Sample Receiving Date : FEB 08, 2006
Testing Period : FEB 08, 2006 TO FEB 14, 2006

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 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.

Results

Item	Unit	MDL	No.1
Lead Content (Pb)	ppm	2	147
Cadmium Content (Cd)	ppm	2	29
Mercury Content (Hg)	ppm	2	N.D.
Hexavalent Chromium (Cr VI)	ppm	2	N.D.

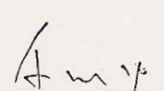
Note : - N.D. = Not Detected (< MDL)
- MDL = Method Detection Limit
- ppm = mg/kg

Specimen Description:

No.1 Silvery metal (shell) + Silvery metal (inner)

*** End of Report ***

Signed for and on behalf of
SGS-CSTC Ltd.


Zhang Li, Amy
Sr. Engineer

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品名



CHINA STEEL

品質證明書

TEST CERTIFICATE (FOR REFERENCE)

CHINA STEEL CORPORATION

1 Chung-Shan Road, Hsiao-Kang, Keelung 51253

Taiwan

Tel: 886 (0) 382 3111 Fax: 886 (0) 382 2511

TEST CERTIFICATE

B0007-01 0143

客戶名稱 SOLD TO	TAI LIANG HARDWARE CO., LTD.	NO. 2, LANE 310, SEC. 5, CHANG HAN RD. CHANG HUA CITY TAIWAN	產品名稱 PRODUCT	ROD-CARBON STEEL
規格名稱	SAE 1008 AL-KILLED (WQ)		發票號碼 INVOICE NO.	942187/ED2139
SPCC			客戶編號 CUSTOMER NO.	12741684
檢驗	CSC MILL INSPECTION	T/C 01 - 03	交運日期 SHIPPING DATE	08/13/05 AUG. 31, 2005
			證明書編號 CERTIFICATE NO.	FS4061E
			客戶訂單編號 CUSTOMER ORDER NO.	

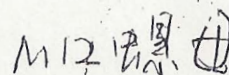
項目 ITEM NO.	產品序號	尺寸及規格 MATERIAL DESCRIPTION				爐號 HEAT NO.	拉伸試驗 TENSILE TEST			化學成分 CHEMICAL ANALYSIS %										備註 REMARKS																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
		直徑/厚 DIAMETER MM	寬度 WIDTH	長度 LENGTH	數量 QTY		重量 KGS	屈服 Y.S.	抗拉 T.S.	伸長 E.L.	C	Mn	P	S	SI	Al	Ni	Cr	Mo		Ti	AP																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						</

註釋
NOTES

SURVEYOR TO

茲證明本表所列產品，均按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.

Y. C. Huang
冶金技術部長
GENERAL MANAGER METALLURGICAL DEPARTMENT



Page 1 of 1

WT :



彈簧

客

Test Report

No.: GZ0604055933/CHEM

Date: MAY 08, 2006

Page 1 of 2

HONWOOD SPRING PART LIMITED

NO. 1 SHANGJIN ROAD SHANGJIAO, CHANGAN TOWN DONGGUAN CITY, GUANGDONG



Report on the submitted sample said to be 碳钢、琴钢弹簧

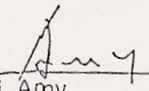
SGS Ref No. : SZ060418308RS-2.2
Sample Receiving Date : APR 19, 2006
Further Sample Receiving Date : APR 30, 2006
Testing Period : APR 19, 2006 TO MAY 08, 2006

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.

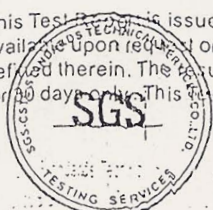
Test Method : (1) Lead content - With reference to EPA method 3050B: 1996 / other acid digestion.
Cadmium content - With reference to BS EN1122: 2001 method B / other acid digestion.
Mercury content - With reference to EPA 3052: 1996 / other acid digestion.
Analysis was performed by Atomic Absorption 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
Sr. Engineer

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富江

Test Report

No.: GZ0604055933/CHEM

Date: MAY 08, 2006

Page 2 of 2

Results:

(1)

Silvery-gray metal spring

Lead Content (Pb) (ppm)

15

Cadmium Content (Cd)

N.D.

Mercury Content (Hg)

N.D.

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

- ppm = mg/kg

(2)

Silvery-gray metal spring

Hexavalent Chromium Content [Cr(VI)]

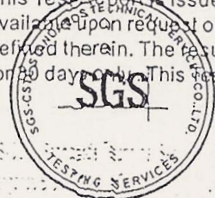
Negative

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

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

*** End of Report ***

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Test Report

No.: GZ0704048210/CHEM

Date: APR 11, 2007

Page 1 of 3

YU YAO BAO YI MATAL PRODUCTS CO., LTD
LUO JIANG VILLAGE, HE MUDU TOWN, YU YAO CITY, ZHEJIANG PROVINCE, CHINA

The following sample(s) was/were submitted and identified on behalf of the applicant as **STAINLESS STEEL STRIP**
Client Reference : Product or Lot No.: SUS201

SGS Ref No. : GC070401893
Manufacturer : YU YAO BAO YI MATAL PRODUCTS CO., LTD
Sample Receiving Date : APR 05, 2007
Testing Period : APR 05, 2007 TO APR 11, 2007

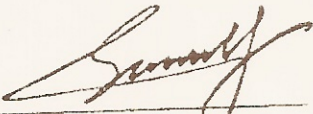
Test Requested : In accordance with the RoHS Directive 2002/95/EC, and its amendment directives.

Test Method : With reference to IEC 62321 Ed.1 111/54/CDV
Procedures for the Determination of Levels of Regulated Substances in Electrotechnical Products
(1) Determination of Cadmium by ICP.
(2) Determination of Lead by ICP&AAS.
(3) Determination of Mercury by ICP.
(4) Determination of Hexavalent Chromium by Colorimetric Method.

Test Results : Please refer to next page.

Conclusion : Based on the performed tests on submitted sample(s), the results **comply with the RoHS**
Directive 2002/95/EC and its subsequent amendments.

Signed for and on behalf of
SGS-CSTC Ltd.


Huang Fang, Sunny
Sr. Engineer

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Test Report

No.: GZ0704048210/CHEM

Date: APR 11, 2007

Page 2 of 3

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

Test Item(s):	Method (refer to)	No. 1	MDL	RoHS Limit
Cadmium (Cd)	(1)	N.D.	2	100
Lead (Pb)	(2)	14	2	1000
Mercury (Hg)	(3)	N.D.	2	1000
Hexavalent Chromium (CrVI) by Spot test	(4)	Negative	See Note 4	#

Test Part Description:

No.1 Silver-gray metal sheet

Note : 1. mg/kg = ppm

2. N.D. = Not Detected (< MDL)

3. MDL = Method Detection Limit

4 Spot-test:

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

Negative = Absence of CrVI coating, Positive = Presence of CrVI coating,
(The tested sample should be further verified by boiling-water-extraction method if the spot test result cannot be confirmed)

Boiling-water-extraction:

Negative = Absence of CrVI coating

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

5. # = Positive indicates the presence of CrVI on the tested areas and result be regarded as conflict with RoHS requirement.

Negative indicates the absence of CrVI on the tested areas and result be regarded as no conflict with RoHS requirement.

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1878

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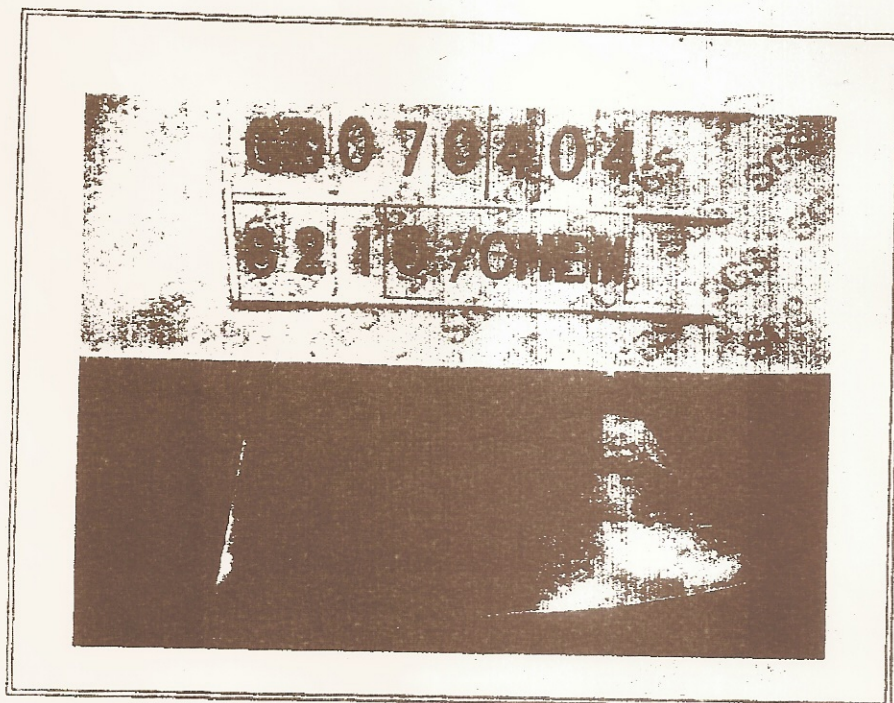
Test Report

No.: GZ0704048210/CHEM

Date: APR 11, 2007

Page 3 of 3

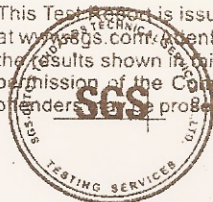
Sample photo :



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GZ070404 1327134

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产 品 质 量 证 明 书

原料供应单位	宝艺	测试依据	光谱	材质	201	
购 货 单 位		硬度			联系人	
产 品 名 称	产 品 规 格		单 位	重 量	交货状态	件 数
不锈钢带						
化 学 成 份 (%)						
C	Si	Mn	P	S	Cr	Ni Mo
0.11	0.99	1.9	0.044	0.029	13.11	0.85宝艺不锈钢

2007.1.28



2008.8.28



Test Report

No: GZ0704048209/CHEM

Date: APR 11, 2007

Page 1 of 3

YU YAO BAO YI MATAL PRODUCTS CO., LTD
LUO JIANG VILLAGE HE MUDU TOWN, YU YAO CITY, ZHEJIANG PROVINCE, CHINA

The following sample(s) was/were submitted and identified on behalf of the applicant as **STAINLESS STEEL STRIP**
Client Reference: Product or Lot No.: SUS301

SGS Ref No : GC070401892
Manufacturer : YU YAO BAO YI MATAL PRODUCTS CO., LTD
Sample Receiving Date : APR 05, 2007
Testing Period : APR 05, 2007 TO APR 11, 2007

Test Requested : In accordance with the RoHS Directive 2002/95/EC, and its amendment directives.

Test Method : With reference to IEC 62321 Ed.1 111/54/CDV
Procedures for the Determination of Levels of Regulated Substances in Electrotechnical Products
(1) Determination of Cadmium by ICP.
(2) Determination of Lead by ICP&AAS.
(3) Determination of Mercury by ICP.
(4) Determination of Hexavalent Chromium by Colorimetric Method.

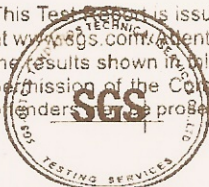
Test Results : Please refer to next page.

Conclusion : Based on the performed tests on submitted sample(s), the results **comply with the RoHS**
Directive 2002/95/EC and its subsequent amendments.

Signed for and on behalf of
SGS-CSTC Ltd.

Huang Fang, Sunny
Sr. Engineer

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

Test Item(s)	Method (refer to)	No.1	MDL	RoHS Limit
Cadmium(Cd)	(1)	N.D.	2	100
Lead (Pb)	(2)	N.D.	2	1000
Mercury (Hg)	(3)	N.D.	2	1000
Hexavalent Chromium (CrVI) by Spot test	(4)	Negative	See Note 4	#

Test Part Description:

No 1 Silver-gray metal sheet

Note : 1. mg/kg = ppm

2. N.D. = Not Detected (< MDL)

3. MDL = Method Detection Limit

4. **Spot-test:**

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

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

Boiling-water-extraction:

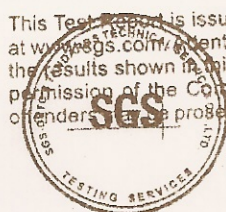
Negative = Absence of CrVI coating

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

5. # = Positive indicates the presence of CrVI on the tested areas and result be regarded as conflict with RoHS requirement.

Negative indicates the absence of CrVI on the tested areas and result be regarded as no conflict with RoHS requirement.

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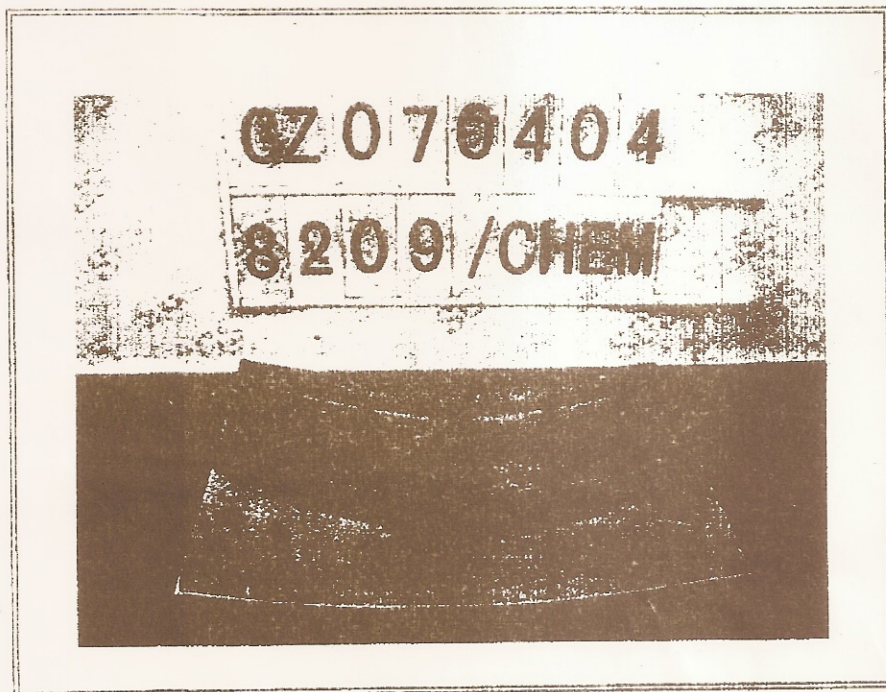
Test Report

No : GZ0704048209/CHEM

Date: APR 11, 2007

Page 3 of 3

Sample photo



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*** End of Report ***

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304 不锈钢

Test Report

No: GZ0704048208/CHEM

Date: APR 11, 2007

Page 1 of 3

YU YAO BAO YI MATAL PRODUCTS CO., LTD
LUO JIANG VILLAGE, HE MUDU TOWN, YU YAO CITY, ZHEJIANG PROVINCE, CHINA

The following sample(s) was/were submitted and identified on behalf of the applicant as STAINLESS STEEL STRIP
Client Reference: Product or Lot No: SUS304

SGS Ref No: GC070401891
Manufacturer: YU YAO BAO YI MATAL PRODUCTS CO., LTD
Sample Receiving Date: APR 05, 2007
Testing Period: APR 05, 2007 TO APR 11, 2007

Test Requested: In accordance with the RoHS Directive 2002/95/EC, and its amendment directives.

Test Method: With reference to IEC 62321 Ed.1 111/54/CDV
Procedures for the Determination of Levels of Regulated Substances in Electrotechnical Products
(1) Determination of Cadmium by ICP.
(2) Determination of Lead by ICP&AAS.
(3) Determination of Mercury by ICP.
(4) Determination of Hexavalent Chromium by Colorimetric Method.

Test Results: Please refer to next page.

Conclusion: Based on the performed tests on submitted sample(s), the results comply with the RoHS Directive 2002/95/EC and its subsequent amendments.

Signed for and on behalf of
SGS-CSTC Ltd.

Huang Fang, Sunny
Sr. Engineer

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Test Report

No.: GZ0704048208/CHEM

Date: APR 11, 2007

Page 2 of 3

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

Test Item(s)	Method (refer to)	No.1	MDL	RoHS Limit
Cadmium(Cd)	(1)	N.D.	2	100
Lead (Pb)	(2)	N.D.	2	1000
Mercury (Hg)	(3)	N.D.	2	1000
Hexavalent Chromium (CrVI) by Spot test	(4)	Negative	See Note 4	#

Test Part Description

No.1 Silver-gray metal sheet

Note: 1. mg/kg = ppm

2. N.D. = Not Detected (< MDL)

3. MDL = Method Detection Limit

4. Spot-test:

Negative = Absence of CrVI coating, Positive = Presence of CrVI coating;
(The tested sample should be further verified by boiling-water-extraction method if the spot test result cannot be confirmed.)

Boiling-water-extraction:

Negative = Absence of CrVI coating

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

5. # = Positive indicates the presence of CrVI on the tested areas and result be regarded as conflict with RoHS requirement.

Negative indicates the absence of CrVI on the tested areas and result be regarded as no conflict with RoHS requirement.

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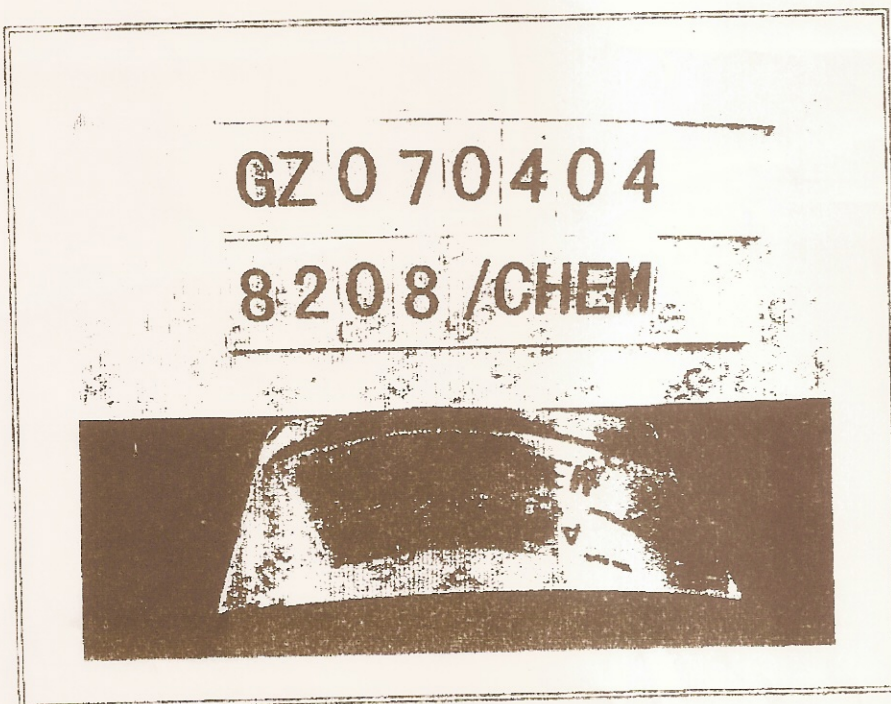
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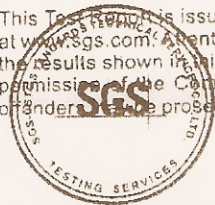
Sample photo :



SGS authenticate the photo on original report only

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Test Report

No. SZTYR070111329/LP

Date: APR 17, 2007

Page 1 of 3

DONG GUAN JINGHE STAINLESS STEEL CO., LTD.
DA BAN DI INDUSTRIAL ESTATE, HUMEN TOWN,
DONGGUAN CITY, GUANGDONG PROVINCE, CHINA

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

SGS Ref No 10333234
Model No 430
Sample Receiving Date APR 13, 2007
Testing Period APR 13, 2007 TO APR 17, 2007

Test Requested In accordance with the RoHS Directive 2002/95/EC, and its amendment directives

Test Method With reference to IEC 62321, Ed.1 111/54/CDV
Procedures for the Determination of Levels of Regulated Substances in
Electrotechnical Products
(1) Determination of Lead by AAS
(2) Determination of Cadmium by AAS
(3) Determination of Mercury by ICP
(4) Determination of Hexavalent Chromium by boiling water extraction.

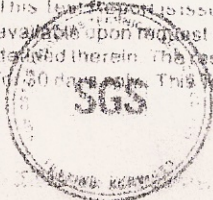
Test Results Please refer to next page(s)

Conclusion Based on the performed tests on submitted samples, the results comply with the
RoHS Directive 2002/95/EC and its subsequent amendments.

Signed for and on behalf of
SGS-CSTC Ltd

Li Ying, Susan
Section Manager

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SZL 659547

Test Report

No: SZTYR070411329/LP

Date: APR 17, 2007

Page 2 of 3

Test Results (unit: ppm)

Test Item(s)	Method (refer to)	<u>Silvery color metal plate</u>	MDL	RoHS Limit
Lead (Pb)	(1)	16	2	1000
Cadmium(Cd)	(2)	N.D.	2	100
Mercury (Hg)	(3)	N.D.	2	1000
Hexavalent Chromium (Cr(VI)) by boiling water extraction	(4)	Negative	See Note (4)	#

Note

- (1) mg/kg = ppm
- (2) MDL = Method Detection Limit
- (3) N.D. = Not Detected (lower than MDL)
- (4) Boiling-water-extraction:
Negative = Absence of Cr(VI) coating Positive = Presence of Cr(VI) coating
(The detected concentration in boiling-water-extraction solution is equal or greater than 0.02 mg/kg with 50 cm² sample surface area.)
- (5) # = Positive indicates the presence of Cr(VI) on the tested areas and result be regarded as conflict with RoHS requirement
Negative indicates the absence of Cr(VI) on the tested areas and result be regarded as no conflict with RoHS requirement
- (6) The maximum permissible limit is quoted from the document 2005/618/EC amending RoHS directive 2002/95/EC.

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SGS

SZL 659948

470

SGS

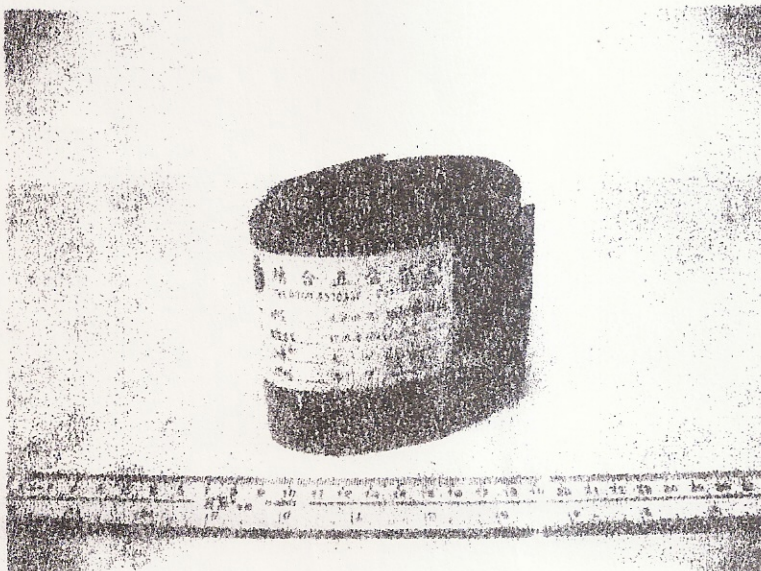
Test Report

No.: SZTYR070411329/LP

Date: APR 17, 2007

Page 3 of 3

Sample Photo:



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SZL 659937

Test Report

No. :KA/2007/10058

Date: 20070109 Page: 1 of 5

CHI MEI CORPORATION.

NO.59-1, SANJIA VILLAGE, RENDE TOWNSHIP, TAINAN COUNTY 717, TAIWAN
(R.O.C.)



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

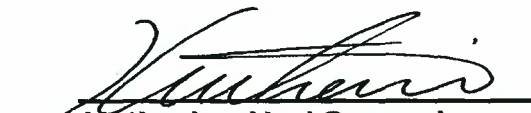
Sample Description	:	POLY METHYL METHACRYLATE
Style/Item No.	:	ACRYREX® CM-211
Color	:	NATURE
Sample Receiving Date	:	2007/01/02
Testing Period	:	2007/01/02 TO 2007/1/9

Test Requested : In accordance with the RoHS Directive 2002/95/EC, and its amendment directives.

Test Method :

- (1) With reference to US EPA 3052 for Cadmium Content. Analysis was performed by ICP-AES.
- (2) With reference to US EPA Method 3052 for Lead Content. Analysis was performed by ICP-AES.
- (3) With reference to US EPA Method 3052 for Mercury Content. Analysis was performed by ICP-AES.
- (4) With reference to IEC 62321, Ed.1 111/54/CDV. Determination of Hexavalent Chromium for non-metallic samples by UV/Vis Spectrometry.
- (5) With reference to US EPA 3540C for PBBs/PBDEs Content. Analysis was performed by GC/MS.

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


Katherine Ho / Supervisor
Signed for and on behalf of
SGS Taiwan Limited

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TW4127876

Test Report

No. :KA/2007/10058

Date: 20070109 Page: 2 of 5

CHI MEI CORPORATION.

NO.59-1, SANJIA VILLAGE, RENDE TOWNSHIP, TAINAN COUNTY 717, TAIWAN
(R.O.C.)



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

Test Item (s):	Method (Refer to)	Result	MDL
		No.1	
Cadmium (Cd)	(1)	n.d.	2
Lead (Pb)	(2)	n.d.	2
Mercury (Hg)	(3)	n.d.	2
Hexavalent Chromium Cr(VI) by alkaline extraction	(4)	n.d.	2
Sum of PBBs	(5)	n.d.	-
Monobromobiphenyl		n.d.	5
Dibromobiphenyl		n.d.	5
Tribromobiphenyl		n.d.	5
Tetrabromobiphenyl		n.d.	5
Pentabromobiphenyl		n.d.	5
Hexabromobiphenyl		n.d.	5
Heptabromobiphenyl		n.d.	5
Octabromobiphenyl		n.d.	5
Nonabromobiphenyl		n.d.	5
Decabromobiphenyl		n.d.	5
Sum of PBDEs (Mono to Nona)(Note 4)		n.d.	-
Monobromobiphenyl ether		n.d.	5
Dibromobiphenyl ether		n.d.	5
Tribromobiphenyl ether		n.d.	5
Tetrabromobiphenyl ether		n.d.	5
Pentabromobiphenyl ether		n.d.	5
Hexabromobiphenyl ether		n.d.	5
Heptabromobiphenyl ether		n.d.	5
Octabromobiphenyl ether		n.d.	5
Nonabromobiphenyl ether		n.d.	5
Decabromobiphenyl ether		n.d.	5
Sum of PBDEs (Mono to Deca)		n.d.	-

TEST PART DESCRIPTION:

NO.1

: NATURE PLASTIC PELLETS

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TW4127875

Test Report

No. :KA/2007/10058

Date: 20070109 Page: 3 of 5

CHI MEI CORPORATION.

NO.59-1, SANJIA VILLAGE, RENDE TOWNSHIP, TAINAN COUNTY 717, TAIWAN
(R.O.C.)

Abstract The purpose of this study was to determine whether there were differences in the prevalence of self-reported depression among men and women who had been exposed to violence by intimate partners. Data from the National Longitudinal Study of Women's Health are used to examine the prevalence of self-reported depression among women who have experienced physical or sexual violence by their current or former partner. Results indicate that women who reported experiencing physical or sexual violence by their current or former partner had higher rates of self-reported depression than those who did not report such experiences.

- Note :
1. mg/kg = ppm
 2. n.d. = Not Detected
 3. MDL = Method Detection Limit
 4. Sum of Mono to NonaBDE & according to 2005/717/EC DecaBDE is exempt.
 5. " - " = Not Regulated

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TW4127874

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Test Report

No. :KA/2007/10058

Date: 20070109

Page: 4 of 5

CHI MEI CORPORATION.

NO.59-1, SANJIA VILLAGE, RENDE TOWNSHIP, TAINAN COUNTY 717, TAIWAN
(R.O.C.)



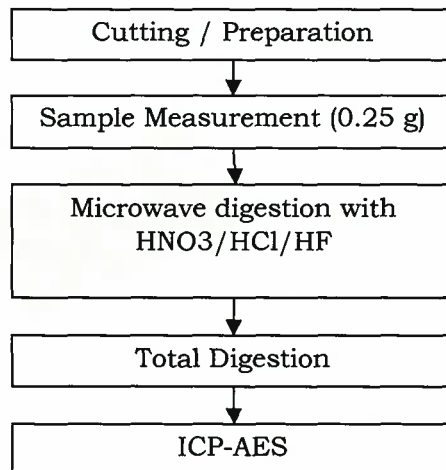
Per requirements of SONY QAR-05-002:

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

2)Name of the person who made measurement: Hungming Li

3)Name of the person in charge of measurement: George Huang

Flow Chart of Digestion for Plastic -EPA3052 for Pb、Cd (without residue)



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TW4127873

Test Report

No. :KA/2007/10058

Date: 20070109 Page: 5 of 5

CHI MEI CORPORATION.

NO.59-1, SANJIA VILLAGE, RENDE TOWNSHIP, TAINAN COUNTY 717, TAIWAN
(R.O.C.)



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TW4127872

Test Report

No. :KA/2007/11084

Date: 20070124 Page: 1 of 5

CHI MEI CORPORATION.

NO.59-1, SANJIA VILLAGE, RENDE TOWNSHIP, TAINAN COUNTY 717, TAIWAN

(R.O.C.)



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

Sample Description : ACRYLONYTRILE-BUTADIENE-STYRENE COPOLYMER
 Style/Item No. : POLYLAC® PA-757
 Color : NATURE
 Sample Receiving Date : 2007/01/17
 Testing Period : 2007/01/17 TO 2007/1/24

Test Requested : In accordance with the RoHS Directive 2002/95/EC, and its amendment directives.

Test Method :

- (1) With reference to US EPA 3052 for Cadmium Content. Analysis was performed by ICP-AES.
- (2) With reference to US EPA Method 3052 for Lead Content. Analysis was performed by ICP-AES.
- (3) With reference to US EPA Method 3052 for Mercury Content. Analysis was performed by ICP-AES.
- (4) With reference to IEC 62321, Ed.1 111/54/CDV. Determination of Hexavalent Chromium for non-metallic samples by UV/Vis Spectrometry.
- (5) With reference to US EPA 3540C for PBBs/PBDEs Content. Analysis was performed by GC/MS.

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


 Katherine Ho / Supervisor
 Signed for and on behalf of
 SGS Taiwan Limited

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TW4124466

Test Report

No. :KA/2007/11084

Date: 20070124 Page: 2 of 5

CHI MEI CORPORATION.

NO.59-1, SANJIA VILLAGE, RENDE TOWNSHIP, TAINAN COUNTY 717, TAIWAN

(R.O.C.)



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

Test Item (s):	Method (Refer to)	Result	MDL
		No.1	
Cadmium (Cd)	(1)	n.d.	2
Lead (Pb)	(2)	n.d.	2
Mercury (Hg)	(3)	n.d.	2
Hexavalent Chromium Cr(VI) by alkaline extraction	(4)	n.d.	2
Sum of PBBs	(5)	n.d.	-
Monobromobiphenyl		n.d.	5
Dibromobiphenyl		n.d.	5
Tribromobiphenyl		n.d.	5
Tetrabromobiphenyl		n.d.	5
Pentabromobiphenyl		n.d.	5
Hexabromobiphenyl		n.d.	5
Heptabromobiphenyl		n.d.	5
Octabromobiphenyl		n.d.	5
Nonabromobiphenyl		n.d.	5
Decabromobiphenyl		n.d.	5
Sum of PBDEs (Mono to Nona)(Note 4)		n.d.	-
Monobromobiphenyl ether		n.d.	5
Dibromobiphenyl ether		n.d.	5
Tribromobiphenyl ether		n.d.	5
Tetrabromobiphenyl ether		n.d.	5
Pentabromobiphenyl ether		n.d.	5
Hexabromobiphenyl ether		n.d.	5
Heptabromobiphenyl ether		n.d.	5
Octabromobiphenyl ether		n.d.	5
Nonabromobiphenyl ether		n.d.	5
Decabromobiphenyl ether		n.d.	5
Sum of PBDEs (Mono to Deca)		n.d.	-

TEST PART DESCRIPTION:

NO.1

: NATURE PLASTIC PELLETS

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TW4124465

Test Report

No. :KA/2007/11084

Date: 20070124 Page: 3 of 5

CHI MEI CORPORATION.

NO.59-1, SANJIA VILLAGE, RENDE TOWNSHIP, TAINAN COUNTY 717, TAIWAN
(R.O.C.)



- Note :
1. mg/kg = ppm
 2. n.d. = Not Detected
 3. MDL = Method Detection Limit
 4. Sum of Mono to NonaBDE & according to 2005/717/EC DecaBDE is exempt.
 5. " - " = Not Regulated

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TW4124464

Test Report

No. :KA/2007/11084

Date: 20070124 Page: 4 of 5

CHI MEI CORPORATION.

NO.59-1, SANJIA VILLAGE, RENDE TOWNSHIP, TAINAN COUNTY 717, TAIWAN

(R.O.C.)



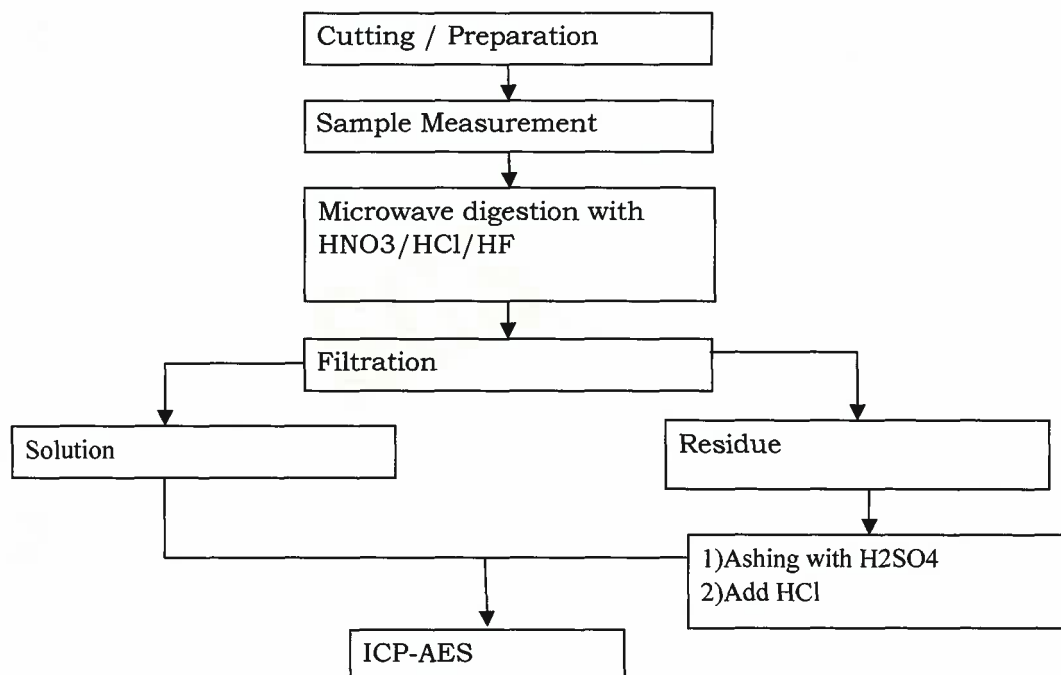
Per requirements of SONY QAR-05-002:

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

2)Name of the person who made measurement: Hungming Li

3)Name of the person in charge of measurement: George Huang

Flow Chart of Digestion for Plastic -EPA3052 for Pb、Cd (residue left)



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TW4124463

Test Report

No. :KA/2007/11084

Date: 20070124 Page: 5 of 5

CHI MEI CORPORATION.

NO.59-1, SANJIA VILLAGE, RENDE TOWNSHIP, TAINAN COUNTY 717, TAIWAN
(R.O.C.)



** End of Report **

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TW4124462



Test Report

No. :KA/2007/10002

Date: 20070105

Page: 1 of 5

CHI MEI CORPORATION

59-1, SAM CHIA, JEN TE VILLAGE, TAINAN COUNTY, TAIWAN, R.O.C.



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

Sample Description : POLYCARBONATE
Style/Item No. : WONDERLITE® PC-110
Color : NATURE
Sample Receiving Date : 2007/01/02
Testing Period : 2007/01/02 TO 2007/1/5

Test Requested

: In accordance with the RoHS Directive 2002/95/EC, and its amendment directives.

Test Method

- : (1) With reference to US EPA 3052 for Cadmium Content. Analysis was performed by ICP-AES.
(2) With reference to US EPA Method 3052 for Lead Content. Analysis was performed by ICP-AES.
(3) With reference to US EPA Method 3052 for Mercury Content. Analysis was performed by ICP-AES.
(4) With reference to IEC 62321, Ed.1 111/54/CDV. Determination of Hexavalent Chromium for non-metallic samples by UV/Vis Spectrometry.
(5) With reference to US EPA 3540C for PBBs/PBDEs Content. Analysis was performed by GC/MS.

Test Result(s)

: Please refer to next page(s).


Katherine Ho / Supervisor
Signed for and on behalf of
SGS Taiwan Limited

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TW 4171533

Test Report

No. :KA/2007/10002

Date: 20070105

Page: 2 of 5

CHI MEI CORPORATION

59-1, SAM CHIA, JEN TE VILLAGE, TAINAN COUNTY, TAIWAN, R.O.C.



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

Test Item (s):	Method (Refer to)	Result	MDL
		No.1	
Cadmium (Cd)	(1)	n.d.	2
Lead (Pb)	(2)	n.d.	2
Mercury (Hg)	(3)	n.d.	2
Hexavalent Chromium Cr(VI) by alkaline extraction	(4)	n.d.	2
Sum of PBBs	(5)	n.d.	-
Monobromobiphenyl		n.d.	5
Dibromobiphenyl		n.d.	5
Tribromobiphenyl		n.d.	5
Tetrabromobiphenyl		n.d.	5
Pentabromobiphenyl		n.d.	5
Hexabromobiphenyl		n.d.	5
Heptabromobiphenyl		n.d.	5
Octabromobiphenyl		n.d.	5
Nonabromobiphenyl		n.d.	5
Decabromobiphenyl		n.d.	5
Sum of PBDEs (Mono to Nona)(Note 4)		n.d.	-
Monobromobiphenyl ether		n.d.	5
Dibromobiphenyl ether		n.d.	5
Tribromobiphenyl ether		n.d.	5
Tetrabromobiphenyl ether		n.d.	5
Pentabromobiphenyl ether		n.d.	5
Hexabromobiphenyl ether		n.d.	5
Heptabromobiphenyl ether		n.d.	5
Octabromobiphenyl ether		n.d.	5
Nonabromobiphenyl ether		n.d.	5
Decabromobiphenyl ether		n.d.	5
Sum of PBDEs (Mono to Deca)		n.d.	-

TEST PART DESCRIPTION:

NO.1

: NATURE PLASTIC PELLETS

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TW 4171532



Test Report

No. :KA/2007/10002

Date: 20070105 Page: 3 of 5

CHI MEI CORPORATION

59-1, SAM CHIA, JEN TE VILLAGE, TAINAN COUNTY, TAIWAN, R.O.C.



- Note :
1. mg/kg = ppm
 2. n.d. = Not Detected
 3. MDL = Method Detection Limit
 4. Sum of Mono to NonaBDE & according to 2005/717/EC DecaBDE is exempt.
 5. " - " = Not Regulated

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TW 4171531

SGS Taiwan Ltd.
台灣檢驗科技股份有限公司

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Member of SGS Group



Test Report

No. :KA/2007/10002

Date: 20070105 Page: 4 of 5

CHI MEI CORPORATION

59-1, SAM CHIA, JEN TE VILLAGE, TAINAN COUNTY, TAIWAN, R.O.C.



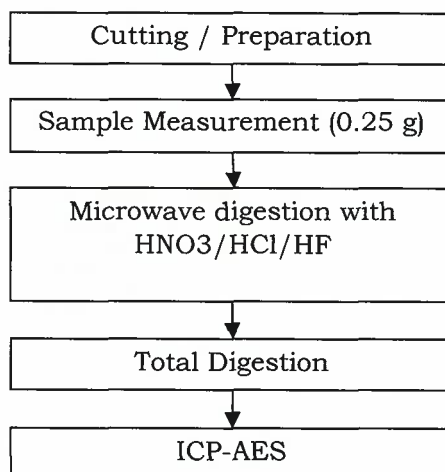
Per requirements of SONY QAR-05-002:

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

2)Name of the person who made measurement: Hungming Li

3)Name of the person in charge of measurement: George Huang

Flow Chart of Digestion for Plastic –EPA3052 for Pb、Cd (without residue)



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TW 4171530

Test Report

No. :KA/2007/10002

Date: 20070105 Page: 5 of 5

CHI MEI CORPORATION

59-1, SAM CHIA, JEN TE VILLAGE, TAINAN COUNTY, TAIWAN, R.O.C.



**** End of Report ****

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TW 4171529

Test Report

No. :KA/2007/10116

Date: 20070109 Page: 1 of 5

CHIMEI-ASAHI CORPORATION
NO.36,KAIFA 4TH RD.,RENDE TOWNSHIP,TAINAN COUNTY 717,TAIWAN

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

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

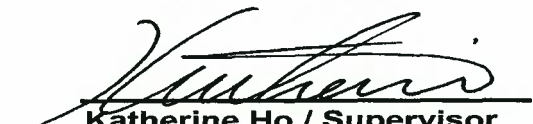
Sample Description : PC/ABS ALLOY
Style/Item No. : WONDERLOY® PC-345
Color : NATURE
Sample Receiving Date : 2007/01/02
Testing Period : 2007/01/02 TO 2007/01/09

Test Requested : In accordance with the RoHS Directive 2002/95/EC, and its amendment directives.

Test Method :

- (1) With reference to US EPA 3052 for Cadmium Content. Analysis was performed by ICP-AES.
- (2) With reference to US EPA Method 3052 for Lead Content. Analysis was performed by ICP-AES.
- (3) With reference to US EPA Method 3052 for Mercury Content. Analysis was performed by ICP-AES.
- (4) With reference to IEC 62321, Ed.1 111/54/CDV. Determination of Hexavalent Chromium for non-metallic samples by UV/Vis Spectrometry.
- (5) With reference to US EPA 3540C for PBBs/PBDEs Content. Analysis was performed by GC/MS.

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


Katherine Ho / Supervisor
Signed for and on behalf of
SGS Taiwan Limited

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TW4127798

Test Report

No. :KA/2007/10116

Date: 20070109

Page: 2 of 5

CHIMEI-ASAHI CORPORATION

NO.36,KAIFA 4TH RD.,RENDE TOWNSHIP,TAINAN COUNTY 717,TAIWAN



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

Test Item (s):	Method (Refer to)	Result	MDL
		No.1	
Cadmium (Cd)	(1)	n.d.	2
Lead (Pb)	(2)	n.d.	2
Mercury (Hg)	(3)	n.d.	2
Hexavalent Chromium Cr(VI) by alkaline extraction	(4)	n.d.	2
Sum of PBBs	(5)	n.d.	-
Monobromobiphenyl		n.d.	5
Dibromobiphenyl		n.d.	5
Tribromobiphenyl		n.d.	5
Tetrabromobiphenyl		n.d.	5
Pentabromobiphenyl		n.d.	5
Hexabromobiphenyl		n.d.	5
Heptabromobiphenyl		n.d.	5
Octabromobiphenyl		n.d.	5
Nonabromobiphenyl		n.d.	5
Decabromobiphenyl		n.d.	5
Sum of PBDEs (Mono to Nona)(Note 4)		n.d.	-
Monobromobiphenyl ether		n.d.	5
Dibromobiphenyl ether		n.d.	5
Tribromobiphenyl ether		n.d.	5
Tetrabromobiphenyl ether		n.d.	5
Pentabromobiphenyl ether		n.d.	5
Hexabromobiphenyl ether		n.d.	5
Heptabromobiphenyl ether		n.d.	5
Octabromobiphenyl ether		n.d.	5
Nonabromobiphenyl ether		n.d.	5
Decabromobiphenyl ether		n.d.	5
Sum of PBDEs (Mono to Deca)		n.d.	-

TEST PART DESCRIPTION:

NO.1

: NATURE PLASTIC PELLETS

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TW4127797

Test Report

No. :KA/2007/10116

Date: 20070109 Page: 3 of 5

CHIMEI-ASAHI CORPORATION

NO.36,KAIFA 4TH RD.,RENDE TOWNSHIP,TAINAN COUNTY 717,TAIWAN



- Note :
1. mg/kg = ppm
 2. n.d. = Not Detected
 3. MDL = Method Detection Limit
 4. Sum of Mono to NonaBDE & according to 2005/717/EC DecaBDE is exempt.
 5. " - " = Not Regulated

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TW4127796

Test Report

No. :KA/2007/10116

Date: 20070109 Page: 4 of 5

CHIMEI-ASAHI CORPORATION

NO.36,KAIFA 4TH RD.,RENDE TOWNSHIP,TAINAN COUNTY 717,TAIWAN



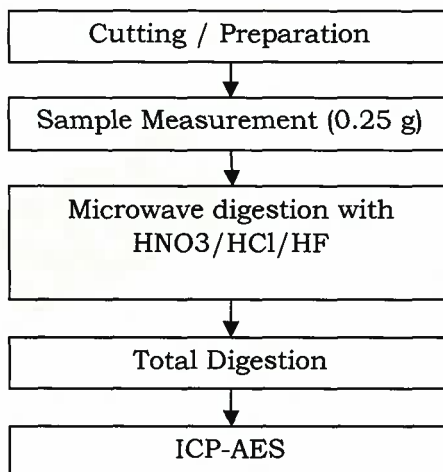
Per requirements of SONY QAR-05-002:

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

2)Name of the person who made measurement: Hungming Li

3)Name of the person in charge of measurement: George Huang

Flow Chart of Digestion for Plastic –EPA3052 for Pb、Cd (without residue)



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TW4127795

Test Report

No. :KA/2007/10116

Date: 20070109 Page: 5 of 5

CHIMEI-ASAHI CORPORATION

NO.36,KAIFA 4TH RD.,RENDE TOWNSHIP,TAINAN COUNTY 717,TAIWAN



**** End of Report ****

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TW4127794



新泰偉科技股份有限公司
SMT TECHNOLOGY CO., LTD.

INSPECTION CERTIFICATE

FS-QC-16

台灣省桃園縣楊梅鎮民權路 8 號
No.8, Ming Lung Road, Yang Mei Chen,
Tao Yuan Hsien, Taiwan
TEL: 886-3-472-5833, FAX: 886-3-472-7711

Customer: 展觀科技股份有限公司

Your P/O No:

Date: 09 August 05

Specification: C5210R-SH JIS H3130(2003)

Our Order No:

Your Part No:

Weight: 0.0 Kg

Lot No.	Standard Dimension	Property Test								Weight (Kg)
		Yield strength (kgf/mm ²)	Tensile strength (kgf/mm ²)	Young's modulus (kgf/mm ²)	Elongation (%)	Hardness (Hv)	Conductivity (%IACS)	Bend Test (180°)	Grain Size (mm)	
		70.00	75.0 ~ 82.0	- ~ -	≥ 9	230 ~ 250	-	-	≤ 0.010	
STB-9300434	0.15*400	64.7	75.6		20	232 ~ 234	13.00	Good	0.010	
STB-9300464	0.25*400	70.6	77.5		16	247 ~ 249	13.00	Good	0.010	

Standard Lot No.	Composition (wt%)						Surface Roughness Ra(μm)	Sur face	Dimension	
	Cu	Sn	P	Zn	Fe	Pb			Thickness (mm)	Width (mm)
	~	7.0000~9.0000	0.0300~0.3500	≤ 0.2000	≤ 0.1000	≤ 0.0090	≤ 0.1500			399.80~400.20
STB-9300434	92.187	7.6933	0.0861	0.0228	0.0045	0.0003	0.098	Good	0.1490	400.000
STB-9300464	92.454	7.4327	0.0821	0.0209	0.0041	0.0003	0.092	Good	0.2490	400.000

Remark: 1. Mechanical properties shall be determined in accordance with ASTM E8 · ISO 6892 ·
2. Conductivity shall be determined in accordance with ISO 1337 ·



Approved by:

Checked by:



測試報告

報告號碼 : CE/2006/96800

日期 : 2006/10/02

頁數: 1 of 5

新泰伸科技股份有限公司

HTS TECHNOLOGY CO., LTD.

326桃園縣楊梅鎮民隆路8號

8, MING LUNG RD., YANG MEI JEN, TAO YUAN, TAIWAN 326, R. O. C.

以下測試樣品係由客戶送樣, 且由客戶聲稱並經客戶確認如下:

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

樣品名稱 : 磷青銅
Sample Description : BRONZE
收件日期(Sample Received) : 2006/09/25
測試期間(Testing Period) : 2006/09/25 TO 2006/10/02

測試需求 / Test Requested : 參照 RoHS 2002/95/EC 及其修定指令要求 / With reference to the RoHS Directive 2002/95/EC, and its amendment directives.

測試方法 / Test Method : (1) 參考BS EN 1122方法B:2001, 用感應耦合電漿原子發射光譜儀檢測鎘含量 / With reference to BS EN 1122:2001, Method B for Cadmium Content. Analysis was performed by ICP-AES.
(2) 參考US EPA 3050B方法, 用感應耦合電漿原子發射光譜儀檢測鉛含量 / With reference to US EPA Method 3050B for Lead Content. Analysis was performed by ICP-AES.
(3) 參考US EPA 3052方法, 用感應耦合電漿原子發射光譜儀檢測汞含量 / With reference to US EPA Method 3052 for Mercury Content. Analysis was performed by ICP-AES.
(4) 參考US EPA 3060A方法, 用UV-VIS (US EPA 7196A)檢測六價鉻含量 / With reference to US EPA Method 3060A & 7196A for Hexavalent Chromium. Analysis was performed by UV/Vis Spectrometry.
(5) 參考IEC 62321 Ed. 1 (111/54/CDV)方法, 用UV-VIS檢測六價鉻含量 / With reference to IEC 62321, ED.1 (111/54/CDV). Determination of Hexavalent Chromium by UV/Vis.
(6) 參考US EPA 3550C方法萃取, 以高效液相層析儀/二極體陣列偵測器/質譜儀初篩, 再進一步參考US EPA 3540C方法, 以氣相層析儀/質譜儀檢測多溴聯苯和多溴聯苯醚含量。 / With reference to US EPA 3540C. Analysis was performed by GC/MS and screening via US EPA 3550C with HPLC/DAD/MS.

測試結果 / Test Result(s) : - 請見下一頁 -


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

57192763
C5210
2006/10/02



測試報告

報告號碼 : CE/2006/96800

日期 : 2006/10/02

頁數: 2 of 5

新泰伸科技股份有限公司

HTS TECHNOLOGY CO., LTD.

326桃園縣楊梅鎮民隆路8號

8, MING LUNG RD., YANG MEI JEN, TAO YUAN, TAIWAN 326, R. O. C.

測試結果 (單位: mg/kg) / Test Result(s)

測試項目 / Test Item (s):	測試方法 Method (Refer to)	結果 / Result	方法偵測 極限值 (MDL)
		No.1	
鎘 / Cadmium (Cd)	(1)	n.d.	2
鉛 / Lead (Pb)	(2)	14.8	2
汞 / Mercury (Hg)	(3)	n.d.	2
六價鉻 / Chromium VI (Cr+6)	(4)	n.d.	2
六價鉻 / Hexavalent Chromium (CrVI) by alkaline extraction	(5)	n.d.	2
總多溴聯苯 / Total PBBs	(6)	n.d.	-
一溴聯苯 / Monobromobiphenyl		n.d.	5
二溴聯苯 / Dibromobiphenyl		n.d.	5
三溴聯苯 / Tribromobiphenyl		n.d.	5
四溴聯苯 / Tetrabromobiphenyl		n.d.	5
五溴聯苯 / Pentabromobiphenyl		n.d.	5
六溴聯苯 / Hexabromobiphenyl		n.d.	5
七溴聯苯 / Heptabromobiphenyl		n.d.	5
八溴聯苯 / Octabromobiphenyl		n.d.	5
九溴聯苯 / Nonabromobiphenyl		n.d.	5
十溴聯苯 / Decabromobiphenyl		n.d.	5
總多溴聯苯醚 / Total PBDEs (PBDEs)		n.d.	-
一溴聯苯醚 / Monobromobiphenyl ether		n.d.	5
二溴聯苯醚 / Dibromobiphenyl ether		n.d.	5
三溴聯苯醚 / Tribromobiphenyl ether		n.d.	5
四溴聯苯醚 / Tetrabromobiphenyl ether		n.d.	5
五溴聯苯醚 / Pentabromobiphenyl ether		n.d.	5
六溴聯苯醚 / Hexabromobiphenyl ether		n.d.	5
七溴聯苯醚 / Heptabromobiphenyl ether		n.d.	5
八溴聯苯醚 / Octabromobiphenyl ether		n.d.	5
九溴聯苯醚 / Nonabromobiphenyl ether		n.d.	5
十溴聯苯醚 / Decabromobiphenyl ether		n.d.	5
一至九溴聯苯醚 / Total of Mono to Nona (Note 5)		n.d.	-

測試部位描述 / Test Part Description

測試部位 / PART NAME NO.1 : 銅色金屬 / COPPER COLORED METAL

Handwritten signature and date: 2006.10.25



測試報告

報告號碼：CE/2006/96800

日期：2006/10/02

頁數：3 of 5

新泰伸科技股份有限公司



HTS TECHNOLOGY CO., LTD.

326桃園縣楊梅鎮民隆路8號

8, MING LUNG RD., YANG MEI JEN, TAO YUAN, TAIWAN 326, R. O. C.

Note: (1) mg/kg = ppm, 0.1% = 1000 ppm(mg/kg), 0.0005% = 5 ppm(mg/kg)

(2) n.d. = N.D. = ND = Not Detected / 未檢出(低於方法偵測極限值)

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

(4) Sample was totally digested for Pb, Cd, Hg / 對於鉛鎘汞測項，樣品是完全消化

(5) Sum of Mono to NonaBDE & according to 2005/717/EC DecaBDE is exempt.

根據2005年10月13日歐盟會議公佈2005/717/EC，修訂2002/95/EC內容，通過解除
高分子材質中十溴聯苯醚之使用限制。

(6) "-" = Not Regulated / 無規格值



測試報告

報告號碼 : CE/2006/96800

日期 : 2006/10/02

頁數: 4 of 5

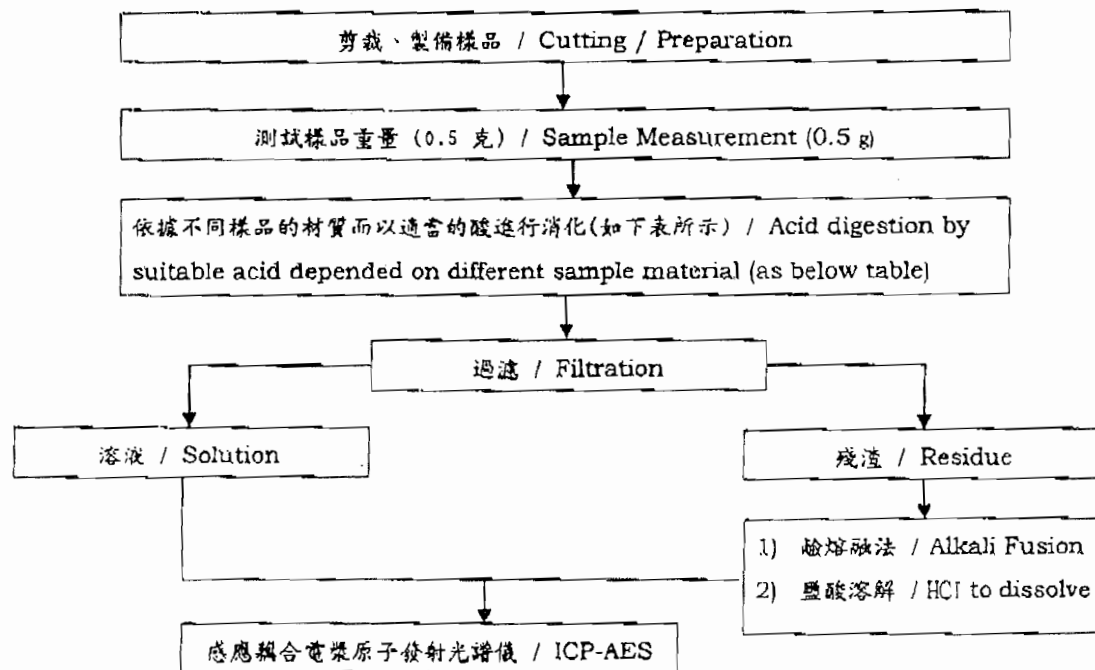
新泰仲科技股份有限公司

HTS TECHNOLOGY CO., LTD.

326桃園縣楊梅鎮民隆路8號

8, MING LUNG RD., YANG MEI JEN, TAO YUAN, TAIWAN 326, R. O. C.

- 1) 根據以下的流程圖之條件, 樣品已完全溶解。 / These samples were dissolved totally by pre-conditioning method according to below flow chart.
 - 2) 測試人員: 李安仁 / Name of the person who made measurement: Anren Lee
 - 3) 測試負責人: 葉禮源 / Name of the person in charge of measurement: Daniel Yeh
- 鎘、鉛的消化流程圖 / Method 1: Flow Chart of Digestion for Cd · Pb analysis**



鋼, 銅, 鋁, 焊錫 / Steel, copper, aluminum, solder	王水, 硝酸, 鹽酸, 氫氟酸, 雙氧水 / Aqua regia, HNO ₃ , HCl, HF, H ₂ O ₂
玻璃 / Glass	硝酸, 氫氟酸 / HNO ₃ /HF
金, 鉑, 鈦, 陶瓷 / Gold, platinum, palladium, ceramic	王水 / Aqua regia
銀 / Silver	硝酸 / HNO ₃
塑膠 / Plastic	硫酸, 雙氧水, 硝酸, 鹽酸 / H ₂ SO ₄ , H ₂ O ₂ , HNO ₃ , HCl
其他 / Others	加入任何酸至完全溶解 / Any acid to total digestion



測試報告

報告號碼 : CE/2006/96800

日期 : 2006/10/02

頁數: 5 of 5

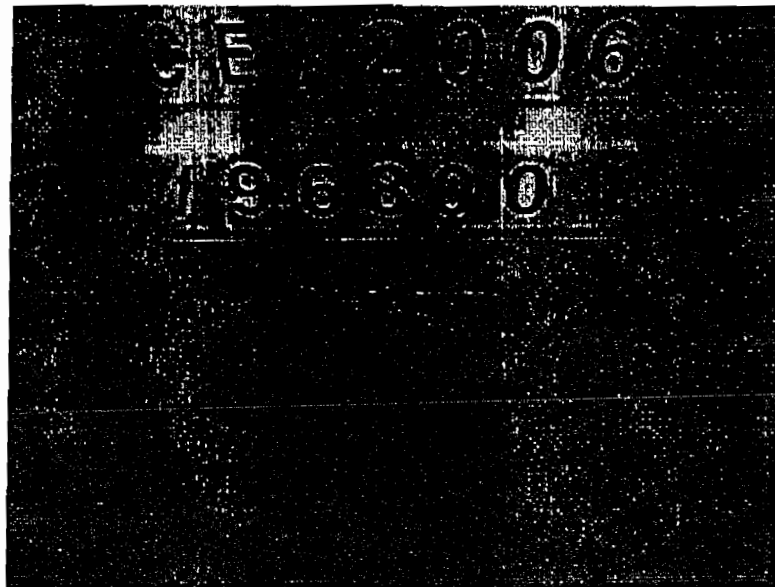
新泰伸科技股份有限公司

TAIPEI TAIWAN TEL: 886-2-2289-3237 FAX: 886-2-2289-3237

HTS TECHNOLOGY CO., LTD.

326桃園縣楊梅鎮民隆路8號

8, MING LUNG RD., YANG MEI JEN, TAO YUAN, TAIWAN 326, R. O. C.



** 報告結尾 **

2074175
0520710107

REV.	ZONE	DESCRIPTION	DESIGN	DATE
A		初版发行	张凤群	07-04-28

NOTE:

1. 材料: C2680R-H
2. 电镀规格:
打银底60u"~100u"后, 接触区镀金1u"
3. 表面不允许有压伤; 刮伤; 变形;
划痕; 污渍.
4. * 为重点管控之尺寸
5. 环保产品符合RoHS环保标准

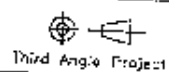


Unless otherwise specified
tolerances are

X.X	±0.30
X.XX	±0.25
X.XXX	±0.15
X'	±2.0'
X.X'	±1.0'

HF ELECTRONICS DONGGUAN CO., LTD

DRAW NO.	HT-DI-0016	DATE	07-04-28
OWN	张凤群	DRAW NAME	松邦 2.54-TERMINAL
CHK			
APVD			P/L



Third Angle Projection

FINISH
MATERIAL

UNIT SCALE WEIGHT REV SHEET

1:1 4 1 C

SGS

测试报告

编号: GZ0701003188/CHEM

日期: 2007 年 1 月 15 日 页码 1 of 3

佛山市三环铜业有限公司
佛山市禅城区佛山大桥原收费站东侧

以下测试之样品是由申请者所提供及确认: C2680

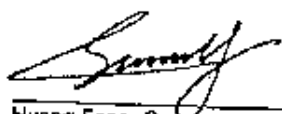
SGS 参考编号 : GZ10220553EC-6.2
收版日期 : 2007 年 1 月 9 日
测试日期 : 2007 年 1 月 9 日至 2007 年 1 月 15 日

测试要求 : 委托测试样品中的铜, 铅, 汞和六价铬的含量。

测试方法 : 参照 IEC 62321 Ed.1 111/54/CDV 电子电器产品中限用物质含量的测定程序
(1) 用 ICP 测定铜的含量
(2) 用 ICP&AAS 测定铅的含量
(3) 用 ICP 测定汞的含量
(4) 用比色法测定六价铬的含量

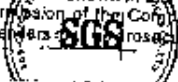
测试结果 : 请参见下一页

Signed for and on behalf of
SGS-CSTC Ltd.


Huang Fang, Sunny
Sr. Engineer



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GZCM1021012



测试报告

编号: GZ0701003186/CHEM

日期: 2007 年 1 月 15 日 页码 2 of 3

测试结果 (单位: 毫克/千克),

测试项目	参考方法	No.1	MDL
镉 (Cd)	(1)	N.D.	2
铅 (Pb)	(2)	72	2
汞 (Hg)	(3)	N.D.	2
点测试法测六价铬 (Cr VI)	(4)	Negative	参见注释 4

测试附件描述:

No.1 黄铜色金属片

注释: 1. 毫克/千克 = ppm

2. N.D. = 未检出 (< MDL)

3. MDL = 方法检测限

4. 点测试:

Negative = 未检测到六价铬, Positive = 检测到六价铬;

(如果点测试结果不能确认, 测试样品将进一步由沸水萃取法进行测试),

沸水萃取法:

Negative = 未检测到六价铬

Positive = 检测到六价铬; 每 50cm² 表面积的被测试样品的沸水萃取液中六价铬的浓度等于或大于 0.02mg/kg.

5. 本测试报告内容是参照报告编号为 GZ0701003185/CHEM 的中文译本, 中英文版本如有歧异, 概以英文版为准。



此报告为根据 SGS 标准测试方法而得出, 仅供参考, 不作为法律依据。如蒙贵方有进一步的要求, 请向贵方当地 SGS 办事处或向贵方当地 SGS 分公司索取。此报告不得用于其他目的, 且不得用于任何法律程序。SGS 及其分公司对测试结果不承担任何责任。SGS 及其分公司对测试结果不承担任何责任。SGS 及其分公司对测试结果不承担任何责任。

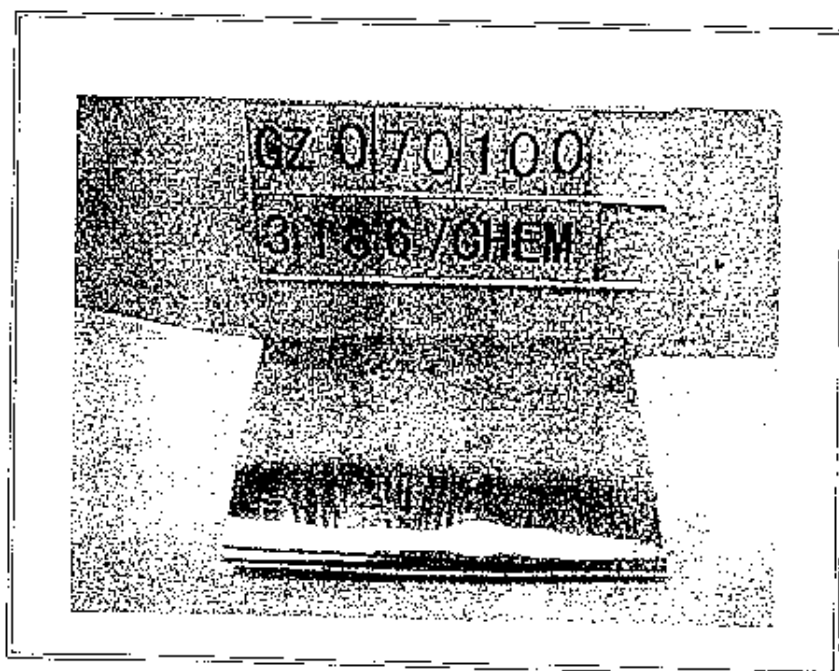
SGS

测试报告

编号: GZ0701003186/CHEM

日期: 2007年1月15日 页码 3 of 3

样品照片:



此图片仅限于此 SGS 证书报告使用

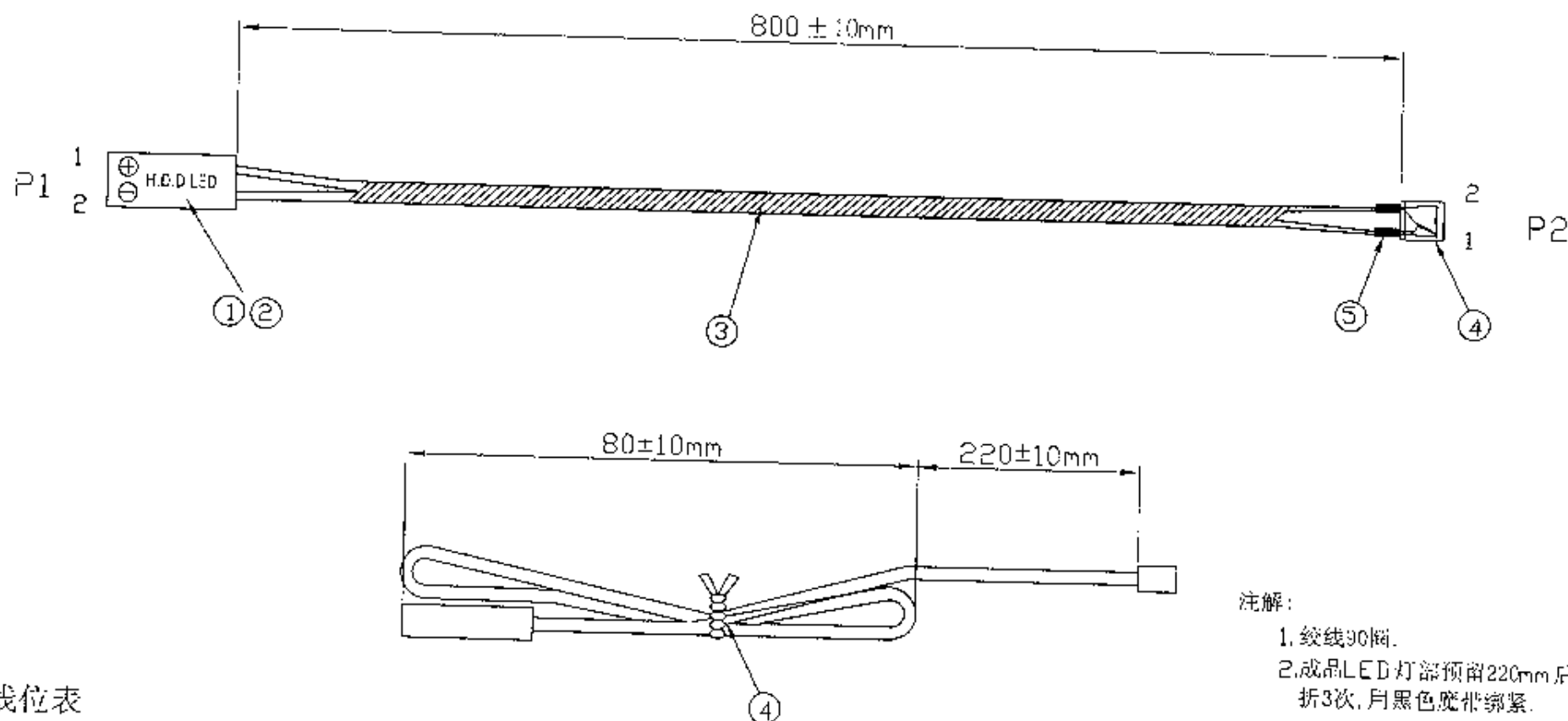
*** 报告完 ***



此份电子版报告乃根据 SGS 禁用物质测试数据库服务条款以及原始书面报告所附之相关信息而发出及使用的。此份电子版报告与原始书面报告内容一致，仅供参考。SGS 仅对报告由 SGS 禁用物质测试数据库系统下载之电子版报告之真实性。

113

版本 REV	变更内容 CHANGE CONTENT	日期 DATE	备注 REMARK



线位表

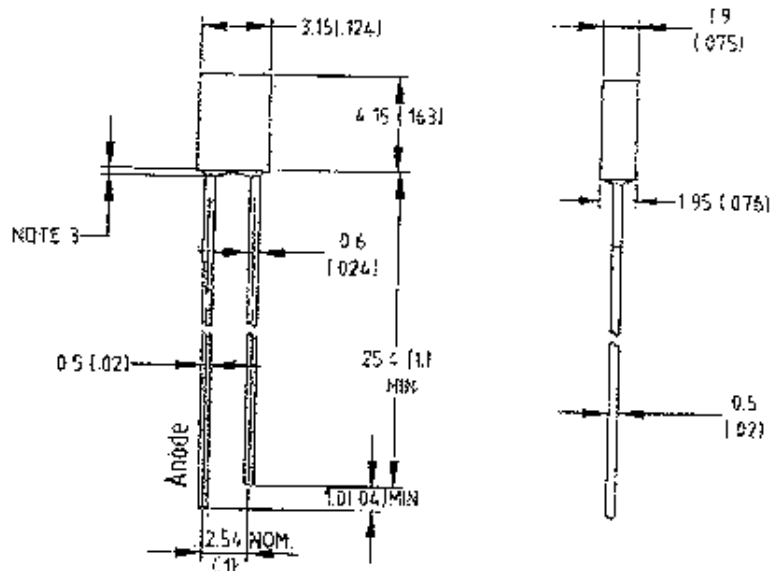
P1	颜色	P2	⑥	黑色魔术带*40mm	1	PCS	深圳市新北环电子科技有限公司						
1	蓝色	1	⑤	Φ1.5*15mm 热缩套管 (WE)	2	PCS							
2	黑色	2	④	2*3*4 白发蓝LED,透明. (LBY)	1	PCS							
			③	UL1571 28AWG 电子线*830mm, 蓝, 黑. (ZD)	2	PCS	制图 DIAWTH	徐明强	客户料号 CU12H-00	2P 杜邦对蓝LED*B60mm			
			②	2.54 2P 杜邦胶壳, 黑色, 印字. (FCD)	1	PCS	审核 CHENJESD		零件号 DAG-RO	MRA201			
			①	2.54 杜邦端子, 镀金. (JM)	2	PCS	核准 APPROVE		比例 SCALE	1:1	单位 UNIT	MM	
			序号	材 料 规 格 (以上零件材料皆符合"ROHS")		数量	单位	日期 DATE	07.03.20	版次	A1	角注	

CED SPECIFICATION

Features:

- ◆ High intensity
- ◆ Standard T-1 3/4 diameter package
- ◆ General purpose leads
- ◆ Reliable and rugged

Package Dimensions:



Part NO.	Chip Material	Lens Color	Source Color
LL-RB341F-B14E	InGaN	Water Clear	Blue

Notes:

1. All dimensions are in millimeters (inches).
2. Tolerance is $\pm 0.25\text{mm}$ (.010") unless otherwise noted.
3. Protruded resin under flange is 1.0mm (.04") max
4. Lead spacing is measured where the leads emerge from the package.
5. Specifications are subject to change without notice.
6. This data-sheet only valid for six months.



Test Report

No.: GZ0703036528/CHEM

Date: MAR 23, 2007

Page 1 of 3

GUANG ZHOU SHI HONG LI OPTO-ELECTRONIC CO., LTD
YANJIANG NORTH ROAD, DONGFENG AUTO CITY, FENGSHEN HIGHWAY, HUADU DISTRICT, GUANGZHOU

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

SGS Ref No. : GZ10286739EC
Sample Receiving Date : MAR 19, 2007
Testing Period : MAR 19, 2007 TO MAR 23, 2007

Test Requested : To determine the Cadmium, Lead, Mercury, Hexavalent Chromium, PBBs (Polybrominated Biphenyls) & PBDEs (Polybrominated Diphenylethers) content in the submitted sample.

Test Method : With reference to IEC 62321 Ed.1 111/54/CDV
Procedures for the Determination of Levels of Regulated Substances in Electrotechnical Products
(1) Determination of Cadmium by ICP.
(2) Determination of Lead by ICP.
(3) Determination of Mercury by ICP.
(4) Determination of Hexavalent Chromium by Colorimetric Method.
(5) Determination of PBBs and PBDEs by GC-MS.

Test Results : Please refer to next page.

Signed for and on behalf of
SGS-CSTC Ltd.

Jiang YongPing, Terry
Sr. Engineer

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Test Report

No.: GZ0703036528/CHFM

Date: MAR 23, 2007

Page 2 of 3

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

Test Item(s):	Method (refer to)	No. 1	MDL
Cadmium(Cd)	(1)	N.D.	2
Lead (Pb)	(2)	7	2
Mercury (Hg)	(3)	N.D.	2
Hexavalent Chromium (CrVI) by alkaline extraction	(4)	N.D.	2
Sum of PBBs	(5)	N.D.	-
Monobromobiphenyl		N.D.	5
Dibromobiphenyl		N.D.	5
Tribromobiphenyl		N.D.	5
Tetrabromobiphenyl		N.D.	5
Pentabromobiphenyl		N.D.	5
Hexabromobiphenyl		N.D.	5
Heptabromobiphenyl		N.D.	5
Octabromobiphenyl		N.D.	5
Nonabromobiphenyl		N.D.	5
Decabromobiphenyl		N.D.	5
Sum of PBDEs		N.D.	-
Monobromodiphenyl ether		N.D.	5
Dibromodiphenyl ether		N.D.	5
Tribromodiphenyl ether		N.D.	5
Tetrabromodiphenyl ether		N.D.	5
Pentabromodiphenyl ether		N.D.	5
Hexabromodiphenyl ether		N.D.	5
Heptabromodiphenyl ether		N.D.	5
Octabromodiphenyl ether		N.D.	5
Nonabromodiphenyl ether		N.D.	5
Decabromodiphenyl ether		N.D.	5

Test Part Description:

No.1 White body w/ silvery metal pin (mixed)

Note : 1. mg/kg = ppm

2. N.D. = Not Detected (< MDL)

3. MDL = Method Detection Limit

4. "-" = Not regulated

Remark : As requested by client, the testing was conducted as whole / part sample.

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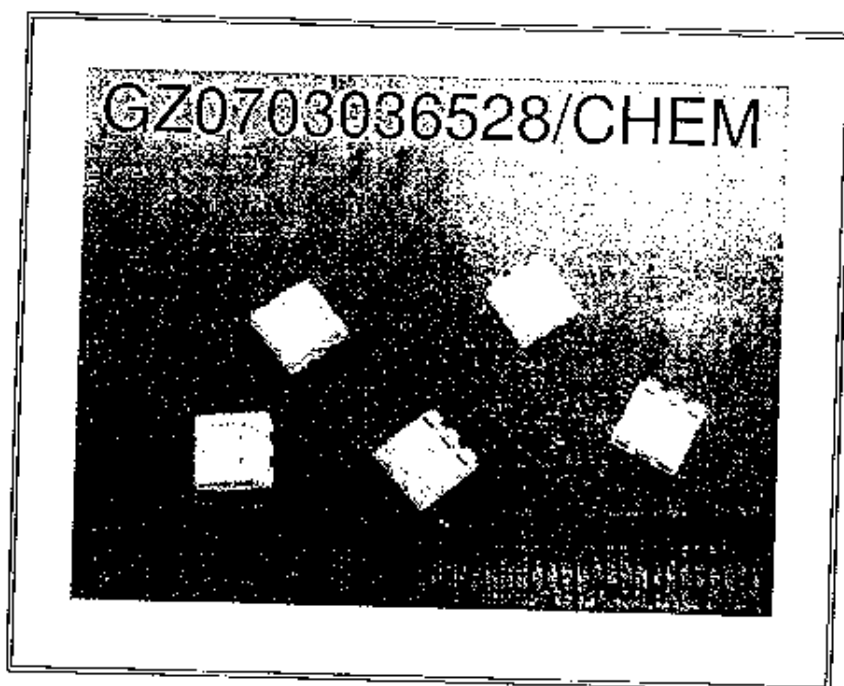
Test Report

No.: GZ0703036528/CHEM

Date: MAR 23, 2007

Page 3 of 3

Sample photo :



SGS authenticate the photo on original report only

*** End of Report ***

UL 1571 HOOK-UP WIRE

80°C 30V PVC 電子線

▲ 說明:

- 導體使用單條或絞線最小至 50AWG 裸銅或鍍錫銅
- PVC 絕緣
- 額定溫度: 80°C, 額定電壓: 30 Volts
- 使用標準厚度, 剝削, 截斷容易
- 可通過UL VW-1, 垂直型耐燃測試

Product Description:

- Thinned, annealed, stranded or solid copper conductor, MIN. 50AWG
- Color-coded PVC insulation
- Rated temperature: 80°C. Rated voltage: 30 volts.
- Uniform thickness of wire to ensure easy stripping and cutting
- Passes UL VW-1 vertical flame test.

▲ 應用:

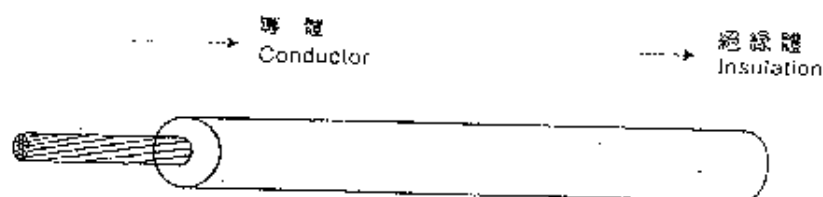
- 電子設備二次回路中內部連接用線。

Applications:

- Internal wiring of class 2 circuits in electronic equipment.

構造及電氣性能

structure & electric properties



UL STANDARD 758: 外徑 1mm 以下不須印字



UL 1571	額 定 Range		導 體 Conductor		絕 緣 體 Insulation		公差值 Tolerance mm	最大導體 阻抗 Maximum Conductor Resistance Ω/km	最小絕緣 阻抗 Minimum Insulation Resistance MΩ/km	絕緣耐電壓 (VAC/min) Insulation Potential Strength
	溫 度 Temp ℃	電 壓 Voltage V	線號 AWG	構 成 NO./mm	厚 度 Thickness mm	外徑 O.D. mm				
多 芯 線 Stranded	80℃	30 V	34	7/0.060	0.20	0.60	±0.05	728.5	15	500
			32	7/0.080	0.20	0.65	±0.05	703		
			30	7/0.100	0.20	0.70	±0.05	397		
			28	7/0.127	0.20	0.80	±0.05	248		
			26	7/0.160	0.20	0.90	±0.05	152		
			24	11/0.16	0.20	1.05	±0.05	88.6		
34			7/0.060	0.20	0.60	±0.05	728.5			
32			7/0.080	0.20	0.65	±0.05	703			
30			7/0.100	0.20	0.70	±0.05	397			
28			7/0.127	0.20	0.80	±0.05	248			
26			7/0.160	0.20	0.90	±0.05	152			
24			7/0.200	0.20	1.05	±0.05	88.6			
32			1/0.203	0.20	0.60	±0.05	575			
30			1/0.254	0.20	0.65	±0.05	377.0			
28			1/0.32	0.20	0.75	±0.05	245.0			
26			1/0.404	0.20	0.85	±0.05	155			
24			1/0.511	0.20	0.95	±0.05	92.4			



Test Report

No. EC405434300

Date: Jan 24 2007

Page 1 of 5

KAI TAT INDUSTRIAL COMPANY
CHANGZHEN TOWN,
GONGMING SHENZHEN CITY
CHINA

Report on the submitted sample said to be: (彩排線)電線與印字

SGS Job No. : 1046960
SGS Reference No. : SZ10232334-10.1
Color : BLACK
Sample Information : 用於電子線 (彩排線) 1007, 1061, 20276, 1571, 1517, 1672, 2468, 1095, 1015
Date of Sample(s) Received : JAN 18 2007
Testing Period : JAN 18-24 2007
Test Requested/ :
Test Method :

- In accordance with RoHS Directive 2002/95/EC, and its amendment directives.
With reference to IEC 62321 (Ed. 1) 111/54/CDV. Procedures for the Determination of Levels of Regulated Substances in Electrotechnical Products.
- Determination of Cadmium by ICP/ AAS.
- Determination of Lead by ICP/ AAS.
- Determination of Mercury by ICP/ AAS.
- Determination of Hexavalent Chromium by colorimetric method (UV-VIS).
- Determination of PBBs and PBDEs by GC-MS.
- For other test:
To determine Tetrabromobisphenol-A (TBBP-A) content in the submitted sample according to SGS In-house method (CTS-SL-229-1), by GC-MS Technique.



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Member of the SGS Group (SGS SA)



Test Report

No. EC405434300

Date: Jan 24 2007

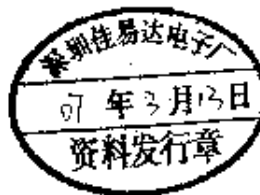
Page 2 of 5

Test Results : Please refer to next page.

Conclusion : - Based on the performed tests on submitted sample, the results comply 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



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Test Report

No. EC405434300

Date: Jan 24 2007

Page 3 of 5

Test Results:

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

	1	MDL	Limit
Cadmium (Cd)	n.d.	2	100
Lead (Pb)	n.d.	2	1000
Mercury (Hg)	n.d.	2	1000
Hexavalent Chromium (CrVI) by colorimetric method	n.d.	2	1000
Sum of PBBs	n.d.	-	1000
Monobromobiphenyl	n.d.	5	
Dibromobiphenyl	n.d.	5	
Tribromobiphenyl	n.d.	5	
Tetrabromobiphenyl	n.d.	5	
Pentabromobiphenyl	n.d.	5	
Hexabromobiphenyl	n.d.	5	
Heptabromobiphenyl	n.d.	5	
Octabromobiphenyl	n.d.	5	
Nonabromobiphenyl	n.d.	5	
Decabromobiphenyl	n.d.	5	
Sum of PBDEs (Note 4)	n.d.	-	1000
Monobromodiphenyl ether	n.d.	5	
Dibromodiphenyl ether	n.d.	5	
Tribromodiphenyl ether	n.d.	5	
Tetrabromodiphenyl ether	n.d.	5	
Pentabromodiphenyl ether	n.d.	5	
Hexabromodiphenyl ether	n.d.	5	
Heptabromodiphenyl ether	n.d.	5	
Octabromodiphenyl ether	n.d.	5	
Nonabromodiphenyl ether	n.d.	5	
Decabromodiphenyl ether	n.d.	5	
Sum of PBDEs (Mono to Deca)	n.d.	-	

Note :

- (1) mg/kg = ppm
- (2) MDL = Method Detection Limit
- (3) n.d. = Not Detected
- (4) Sum of Mono to NonaBDE & according to 2005/717/EC DecaBDE is exempt.
- (5) - = Not Regulated
- (6) - = Not Conducted



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Test Report

No. EC405434300

Date: Jan 24 2007

Page 4 of 5

Tetrabromobisphenol-A (TBBP-A)

	<u>CAS-Nr</u>	<u>1</u>	<u>DL</u>
Tetrabromobisphenol-A (TBBP-A)	79-94-7	n.d.	5

Note :

- (1) Unit: mg/kg = ppm
- (2) DL = Detection Limit
- (3) n.d. = Not Detected

Sample Description

1 Black Plastic w/ Grey Printing



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Authorised by the Director of the Department of the Environment



Test Report

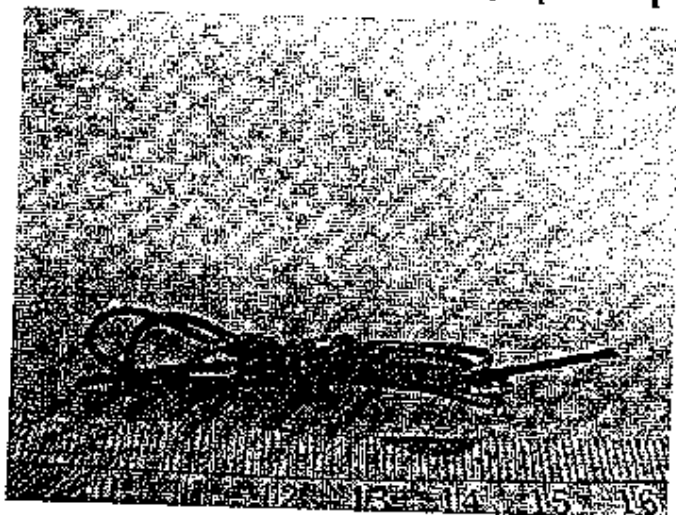
No. EC405434300

Date: Jan 24 2007

Page 5 of 5

Sample photo:

EC405434300 (Sample 1)



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File No: 100-000-000-000-000



Test Report

No. EC405435900

Date: Jan 24 2007

Page 1 of 4

KAI TAT INDUSTRIAL COMPANY
CHANGZHEN TOWN,
GONGMING SHENZHEN CITY
CHINA

Report on the submitted sample said to be: (彩排線)電線與印字

SGS Job No. : 1046947
SGS Reference No. : SZ10232334-10.6
Color : BLUE
Sample Information : 用於電子線 (彩排線) 100%, 1061, 20276, 1571, 1517, 1672, 2438, 1035, 1015
Date of Sample(s) Received : JAN 18 2007
Testing Period : JAN 18 - 24 2007
Test Requested/ :
Test Method :

- In accordance with RoHS Directive 2002/95/EC, and its amendment directives.
With reference to IEC 62321 (Ed. 1) 111/54/CDV. Procedures for the Determination of Levels of Regulated Substances in Electrotechnical Products
- Determination of Cadmium by ICP/ AAS.
- Determination of Lead by ICP/ AAS.
- Determination of Mercury by ICP/ AAS.
- Determination of Hexavalent Chromium by colorimetric method (UV-VIS).
- Determination of PBBs and PBDEs by GC-MS.



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Test Report

No. EC405435900

Date: Jan 24 2007

Page 2 of 4

Test Results : Please refer to next page.
Conclusion : - Based on the performed tests on submitted sample, the results comply 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



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Test Report

No. EC405435900

Date: Jan 24 2007

Page 3 of 4

Test Results.

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

	1	MDL	Limit
Cadmium (Cd)	n.d.	2	100
Lead (Pb)	n.d.	2	1000
Mercury (Hg)	n.d.	2	1000
Hexavalent Chromium (CrVI) by colorimetric method	n.d.	2	1000
Sum of PBBs	n.d.	-	1000
Monobromobiphenyl	n.d.	5	
Dibromobiphenyl	n.d.	5	
Tribromobiphenyl	n.d.	5	
Tetrabromobiphenyl	n.d.	5	
Pentabromobiphenyl	n.d.	5	
Hexabromobiphenyl	n.d.	5	
Heptabromobiphenyl	n.d.	5	
Octabromobiphenyl	n.d.	5	
Nonabromobiphenyl	n.d.	5	
Decabromobiphenyl	n.d.	5	
Sum of PBDEs (Note 4)	n.d.	5	
Monobromodiphenyl ether	n.d.	-	1000
Dibromodiphenyl ether	n.d.	5	
Tribromodiphenyl ether	n.d.	5	
Tetrabromodiphenyl ether	n.d.	5	
Pentabromodiphenyl ether	n.d.	5	
Hexabromodiphenyl ether	n.d.	5	
Heptabromodiphenyl ether	n.d.	5	
Octabromodiphenyl ether	n.d.	5	
Nonabromodiphenyl ether	n.d.	5	
Decabromodiphenyl ether	n.d.	5	
Sum of PBDEs (Mono to Deca)	n.d.	-	

Note :

(1) mg/kg = ppm

(2) MDL = Method Detection Limit

(3) n.d. = Not Detected

(4) Sum of Mono to NonaBDE & according to 2005/717/EC DecaBDE is exempt

(5) - = Not Regulated

(6) -- = Not Conducted

Sample Description

1 Blue Plastic w/ Off-White Printing



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Test Report

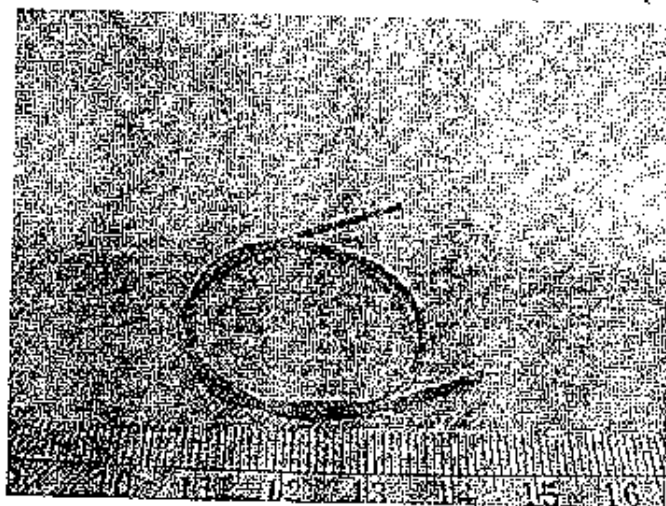
No. EC405435900

Date: Jan 24, 2007

Page 4 of 4

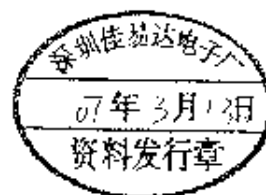
Sample photo:

EC405435900 (Sample 1)



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For further info, call 1911 1911 1911

芳春五金塑胶制品厂

东莞市长安镇厦岗隆盛村

FEATURES:

Part NO: 杜邦双排

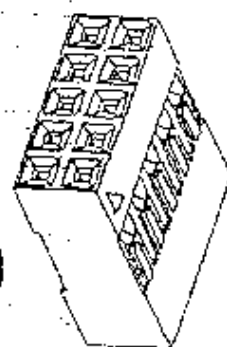
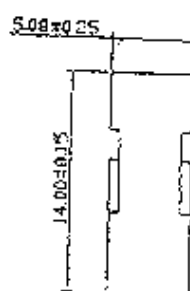
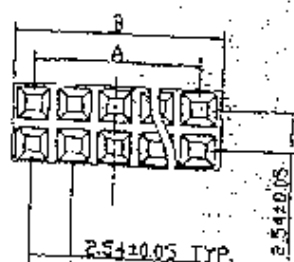
pitch: 2.54mm (0.1")

Material: PBT

Poles: 4-64

Accepts terminals:

Color: Black



YX2542H-2HX5 HOUSING

POLES	A DIM	B DIM	POLES	A DIM	B DIM
2X2P-5P	±0.05	±0.15	2X16P-20P	±0.25	±0.30
2X6P-10P	±0.15	±0.20	2X21P-30P	±0.30	±0.35
2X11P-15P	±0.20	±0.25	2X31P-	±0.35	±0.40

Poles	Part No.	Dimension		Poles	Part No.	Dimension	
		A(mm)	B(mm)			A(mm)	B(mm)
4	YX2542H-2HX2P	2.54	5.08	36	YX2542H-2HX10P	43.10	45.72
6	YX2542H-2HX3P	5.08	7.62	38	YX2542H-2HX19P	45.72	48.26
8	YX2542H-2HX4P	7.62	10.16	40	YX2542H-2HX20P	48.26	50.80
10	YX2542H-2HX5P	10.16	12.70	42	YX2542H-2HX21P	50.80	53.34
12	YX2542H-2HX6P	12.70	15.24	44	YX2542H-2HX22P	53.34	55.88
14	YX2542H-2HX7P	15.24	17.78	46	YX2542H-2HX23P	55.88	58.42
16	YX2542H-2HX8P	17.78	20.32	48	YX2542H-2HX24P	58.42	60.96
18	YX2542H-2HX9P	20.32	22.86	50	YX2542H-2HX25P	60.96	63.50
20	YX2542H-2HX10P	22.86	25.40	52	YX2542H-2HX26P	63.50	66.04
22	YX2542H-2HX11P	25.40	27.94	54	YX2542H-2HX27P	66.04	68.58
24	YX2542H-2HX12P	27.94	30.48	56	YX2542H-2HX28P	68.58	71.12
26	YX2542H-2HX13P	30.48	33.02	58	YX2542H-2HX29P	71.12	73.66
28	YX2542H-2HX14P	33.02	35.56	60	YX2542H-2HX30P	73.66	76.20
30	YX2542H-2HX15P	35.56	38.10	62	YX2542H-2HX31P	76.20	78.74
32	YX2542H-2HX16P	38.10	40.64	64	YX2542H-2HX32P	78.74	81.28
34	YX2542H-2HX17P	40.64	43.18				

Test Report

No. 2072320/EC

Date: Aug 23 2006

Page 1 of 3

FANGCHUN METALS PLASTIC PROCESS STORE
XIAGANG FIRST INDUSTRIAL DISTRICT,
CHANGAN TOWN, DONGGUAN CITY, GUANGDONG CITY, CHINA

Report on the submitted sample said to be 松邦 2.54 2.0HSG.

SGS Job No. : 1021120
SGS Ref. No. : SZ10043762
Sample Receiving Date : AUG 15 2006
Testing Period : AUG 15-22 2006

Test Requested : (1-4) With reference to the RoHS Directive 2002/95/EC, and its amendment directives.

Test Method : (1) With reference to BS EN 1122:2001, Method B for Cadmium content.
Analysis was performed by ICP.
(2) With reference to EPA Method 3051A/ 3052 for Lead and Mercury content.
Analysis was performed by ICP.
(3) With reference to EPA Method 3060A & 7196A for Hexavalent Chromium content.
Analysis was performed by UV/VIS Spectrometry.
(4) 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



H13532821

Test Report

No. 2072330/EC

Date: Aug 23 2006

Page 2 of 3

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

1-4)

	1	MDL	RoHS Limit
Cadmium (Cd)	ND	2	100
Lead (Pb)	ND	2	1000
Mercury (Hg)	ND	2	1000
Hexavalent Chromium (CrVI)	ND	2	1000
Polybrominated Biphenyl (PBBs)	< 50	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)*	< 45	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) *	< 50	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) The maximum permissible limit is quoted from the document 2005/618/EC amending RoHS directive 2002/95/EC

Sample Description:

1. Black Plastic w/ White Printing



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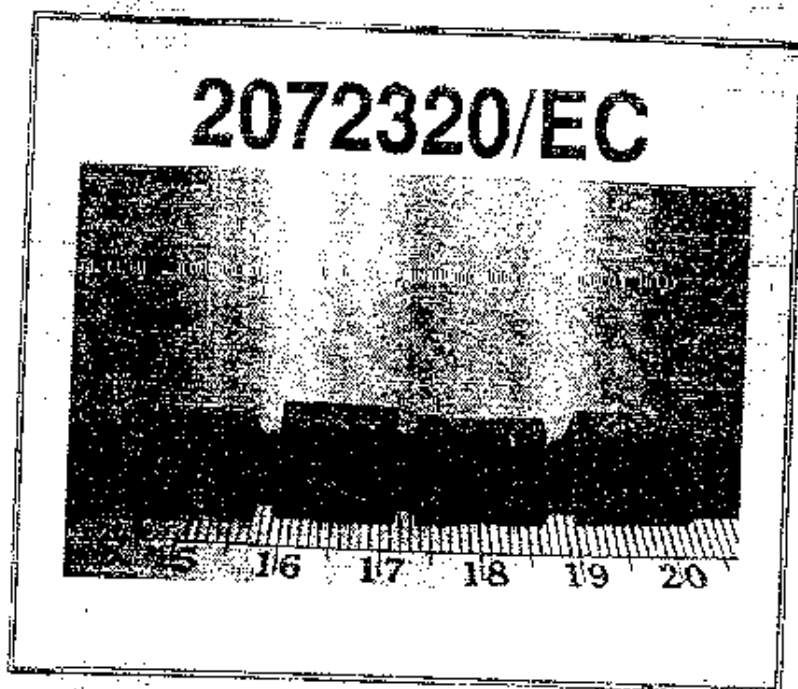
Test Report

No. 2072320/EC

Date : Aug 23 2008

Page 3 of 3

Sample photo:



SGS authenticate the photo on original report only

End of Report



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(2) 100% 100% (P/B)

Test Report

No.: GZ0609137114/CHPM

Date: SEP 08, 2006

Page 1 of 3

SHEN ZHEN DING YE ELECTRONIC CO., LTD.
3ST XIN FA INDUSTRIAL ZONE, SHAJING TOWN, BAOAN SHENZHEN PRC

Report on the submitted sample said to be PCB

SGS Ref No. : SZ10061238
Sample Receiving Date : SEP 04, 2006
Testing Period : SEP 04, 2006 TO SEP 08, 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), PBOEs (Polybrominated Diphenylethers) of the submitted sample.

Test Method : (1) Lead content - With reference to EPA 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 & EPA 7473: 1998 & other acid digestion.
Hexavalent Chromium content - With reference to IEC 62321 CDV (TC111) (Sec. 9 - Alkaline Digestion Procedure).
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.

Remark : As requested by client, the testing was conducted as whole / part sample.

Signed for and on behalf of
SGS-CSTC Ltd

Zhang Li, Amy
Sr. Engineer

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SGS (China) Technology Co., Ltd.
General Manager

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Test Report

No. GZ0609137114/CHEM

Date: SEP 08, 2005

Page 2 of 3

Results

(1)

Item	Unit	MDL	"PCB" (mixed)	Limit
Lead Content (Pb)	mg/kg	2	28	< 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	"PCB" (mixed)	Limit
Flamm Retardants				
Poly brominated Biphenyls (PBBs)				< 1000mg/kg
Monobromobiphenyl	mg/kg	5	N.D.	
Dibromobiphenyl	mg/kg	5	N.D.	
Tri bromobiphenyl	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.	
Poly brominated Diphenylethers (PBDEs) (Mon-Non)				< 1000mg/kg
Monobromodiphenyl ether	mg/kg	5	N.D.	
Dibromodiphenyl ether	mg/kg	5	N.D.	
Tri bromodiphenyl 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 ^a	mg/kg	5	N.D.	

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

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

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GZCM 843090

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Test Report

No. GZ0609138002/CHEM

Date SEP 11, 2006

Page of 3

HONG DA ELECTRONIC EQUIPMENT CO., LTD
E SIDE OF SHAYUAN ROAD, LONGQI, SHAWAN, PANYU, GUANGZHOU

Report on the submitted sample said to be HT-50/HT-50H

SGS Ref No. : SZ10069007-2.2

Sample Receiving Date : SEP 05, 2006

Testing Period : SEP 05, 2006 TO SEP 11, 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 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 & EPA 7473: 1998 & other acid digestion.
Hexavalent Chromium content - With reference to EPA 3060A: 1996 & EPA 196A: 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.

Signed for and on behalf of
SGS-CSTC Ltd.

Jiang YongPing, Terry
Sr. Engineer

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GZCN 865268

SGS (Shanghai) Electronic Equipment Co., Ltd. (SGS) is a subsidiary of SGS-CSTC Ltd. (SGS) and is located at No. 199, Shiyuan Road, Longqi, Shawan, Panyu, Guangzhou, China. The company is registered with the State Administration for Market Regulation (SAMR) and is a member of the China Association of Testing Laboratories (CATL). The company's contact information is as follows: Tel: (020) 82155555, Fax: (020) 82075125, Email: www.cn.sgs.com.

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SGS

To: 譚 'R

0769-85183746

Test Report

No: SZTYR061009653/LP

Date: OCT 12, 2006

Page 1 of 1

SHENZHEN W&T INDUSTRY & TRADE CO., LTD.
3F THE 1ST BUILDING, ZHUGUANG INDUSTRIAL ZONE,
XILI TOWN, NANSHAN DISTRICT, SHENZHEN

Report on the submitted sample said to be: 镍镍添加剂, 镀金添加剂

Sample Receiving Date : OCT 09, 2006

Testing Period : OCT 09, 2006 TO OCT 12, 2006

Test Requested : To determine the Lead, Cadmium, Mercury & Hexavalent Chromium content in the submitted sample.

Test Method : Lead content - with reference to EPA Method 3050B: 1996.
Cadmium content - with reference to EN1122: 2001 method B.
Mercury content - with reference to EPA Method 3052: 1996.
Hexavalent Chromium content - with reference to EPA Method 3060A: 1996.
Analysis was performed by Atomic Absorption Spectrometer (AAS) and Inductively Coupled Plasma Atomic Emission Spectrometer (ICP-AES).

Results

	Transparent liquid
Lead Content (mg/kg)	< 2
Cadmium Content (mg/kg)	< 2
Mercury Content (mg/kg)	< 2
Hexavalent Chromium Content (mg/kg)	< 2

Note: - < = Less Than

- ppm = mg/kg

- Results shown are of the total weight of liquid sample.

*** End of Report ***

Signed for and on behalf of
SGS-CSTC Ltd.



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SGS

Test Report

No.: GZ0609138002/CHEM

Date: SEP 11, 2006

Page 3 of 3

SAMPLE PHOTO



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SGS (Shanghai) Inspection & Certification Co., Ltd.
 Sample No.: GZ0609138002

SGS (Shanghai) Inspection & Certification Co., Ltd. (Shanghai Branch), Room 1001

中国·广州·经济技术开发区科学城科珠路198号 邮编: 510663

G:CM 865265

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SGS

(3) 18 板材料 FR4 SGS

Test Report

No. SH7010827-1/ CHEM Date: Feb. 25, 2007

Page 1 of 8

INTERNATIONAL LAMINATE MATERIAL LTD
THE NO.63, TIAOXI ROAD, LINAN CITY, ZHEJIANG PROVINCE, CHINA

THIS REPORT IS TO SUPERSEDE TEST REPORT NO. SH7010827/CHEM, DATE: 2007/02/12.

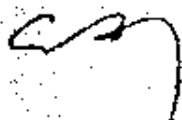
The following sample was submitted and identified by/on behalf of the client as

Sample Name : COPPER CLAD LAMINATE
SGS Ref No. : 10247399-2
Model : FR-4
Main Substance : COPPER, BROMINATED EPOXY RESIN, GLASS FABRIC

Sample Receiving Date : Jan. 31, 2007
Testing Period : Jan. 31 - Feb. 12, 2007

Test Requested : (1) In accordance with the RoHS Directive 2002/95/EC, and its amendment directives
(2) To determine the Polychlorinated Naphthalene Content of the submitted sample.
(3) To determine the Short Chain Chlorinated Paraffin content of the submitted sample.
(4) To determine the Organic-tin compounds content of the submitted sample.
(5) *To determine the TBBP-A Content in the submitted sample.
(6) *To determine the Asbestos Content in the submitted sample.
(7) **As specified by client, to detection and determination of certain listed aromatic amines derived from Azo Colorants

Test Method/Test Results: Please refer to next pages

Signed for and on behalf of
SGS-CSTC Chemical LaboratoryElla Zhang
Sr. Section HeadSigned for and on behalf of
SGS-CSTC Chemical LaboratorySandy Hao
Lab Manager

SGS

Test Report

No. SH7010827-1/ CREM Date: Feb. 25, 2007

Page 2 of 8

Test Method

- (1-1) With reference to IEC 62321 Ed 111/54/CDV for Cadmium content
Analysis was performed by ICP and AAS.
- (1-2) With reference to IEC 62321 Ed 111/54/CDV for Lead content
Analysis was performed by ICP and AAS.
- (1-3) With reference to IEC 62321 Ed 111/54/CDV for Mercury content
Analysis was performed by ICP.
- (1-4) With reference to IEC 62321 Ed 111/54/CDV for Hexavalent Chromium by
spot test / Colorimetric Method.
- (1-5) With reference to IEC 62321 Ed 111/54/CDV for PBBs / PBDEs Content.
Analysis was performed by GC/MS.
- (2) With reference to US EPA 8081, Analysis was performed by GC/MS.
- (3) With reference to US EPA 8081, Analysis was performed by GC/MS.
- (4) With reference to DIN ISO 17353-2004 with carbamate, Analysis was performed
by GC/MS.
- (5) With reference to DIN 53319 and IEC 62321 ed.1, Analysis was performed by
GC/MS.
- (6) As per NIOSH 9000 method, Analysis was performed by XRD.
- (7) As per EN14362-2:2003 & LFGB § 84 BVL B 82 02.9 - 2006 -Extraction test on
coloured textile - Detection of the use of certain azo colorants are accessible
to reducing agents without extraction with the use of Gas Chromatographic
Mass Spectrometry (GC-MS)/Thin Layer Chromatography (TLC) Technique.

Test results by chemical method

(1) Cadmium, Lead, Mercury, Hexavalent Chromium, PBBs / PBDEs Content (Unit: mg/kg)

Test Item(s)	Method (refer to)	1	2	MDL	RoHS Limit
Cadmium (Cd)	(1-1)	ND	ND	2	100
Lead (Pb)	(1-2)	ND	ND	2	1000
Mercury (Hg)	(1-3)	ND	ND	2	1000
Hexavalent Chromium (CrVI)	(1-4)	ND	---	2	1000
Hexavalent Chromium (CrVI) by Spot test / boiling water extraction	(1-4)	---	Negative	See Note (5)	#
Sum of PBBs	(1-5)	ND	---	5	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	-
Sum of PBDEs (Note 4)		ND	---	-	1000

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Test Report

No. SH7010827-1/ CHEM

Date: Feb. 25, 2007

Page 3 of 8

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 of PBDEs (Mono to Deca)	ND	---	-	-

(2) Polychlorinated Naphthalene Content (Unit: mg/kg)

Test Item(s):	Method (refer to)	1	MDL
2-Chlorinated Naphthalene	(2)	ND	5
1,4-Dichlorinated Naphthalene		ND	5
1,5-Dichlorinated Naphthalene		ND	5
1,2-Dichlorinated Naphthalene		ND	5
1,8-Dichlorinated Naphthalene		ND	5
1,2,3,4-Tetrachlorinated Naphthalene		ND	5
Octa-chlorinated Naphthalene		ND	5

(3) Short Chain Chlorinated Paraffin content (Unit: mg/kg)

Test Item(s):	Method (refer to)	1	MDL
Short Chain Chlorinated Paraffin	(3)	ND	30

(4) Organic-tin compounds content (Unit: mg/kg)

Test Item(s):	Method (refer to)	1	MDL
Triphenyl Tin (TPT)	(4)	ND	0.5
Tributyl Tin (TBT)		ND	0.5

(5) TBBP-A Content (Unit: mg/kg)

Test Item(s):	Method (refer to)	1	MDL
TBBP-A (CAS NO.: 000079-94-7)	(5)	ND	10

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SGS

Test Report

No. SH7010827-1/ CHEM Date: Feb. 25, 2007

Page 4 of 8

(6) Asbestos Content (Unit: %)

Test Item(s)	Method (refer to)	1	MDI
Anthophyllite (CAS NO.: 017068-78-9)	(6)	Negative	1
Crocidolite (CAS NO.: 012001-28-4)		Negative	1
Amosite (CAS NO.: 012172-73-5)		Negative	1
Tremolite (CAS NO.: 014567-73-8)		Negative	1
Chrysotile (CAS NO.: 012001-29-5)		Negative	1
Actinolite (CAS NO.: 013768-00-8)		Negative	1

Note: Negative = <1.0%, Positive = >1.0%

(7) To detection and determination of certain listed aromatic amines derived from Azo Colorants (Unit: mg/kg)

No.	Forbidden Amines Substances	CAS-No.	Result
1.	4-aminodiphenyl/xenylamine/ Biphenyl-4-ylamine	92-67-1	ND
2.	Benzidine	92-87-5	ND
3.	4-chloro-o-toluidine	95-69-2	ND
4.	2-naphthylamine	91-59-8	ND
5.	o-aminotoluene/ 4-o-tolylazo-o-toluidine/ 4-amino-2',3'-dimethylazobenzene	97-56-3	ND
6.	2-amino-4-nitrotoluene/5-nitro-o-toluidine	99-55-8	ND
7.	p-chloraniline/4-chloroaniline	106-47-8	ND
8.	2,4-diaminobenzonitrile/ 4-methoxy-m-phenylenediamine	615-05-4	ND
9.	4,4'-diaminodiphenylmethane/ 4,4'-methylenedianiline	101-77-9	ND
10.	3,3'-dichlorobenzidine/ 3,3'-dichlorobiphenyl-4,4'-ylenediamine	91-94-1	ND
11.	3,3'-dimethoxybenzidine/o-dianisidine	119-90-4	ND
12.	3,3'-dimethylbenzidine/4,4'-bi-o-Toluidine	119-93-7	ND
13.	3,3'-dimethyl-4,4'-diaminodiphenylmethane/ 4,4'-methylenedi-o-toluidine	838-88-0	ND
14.	p-cresidine/5-methoxy-m-toluidine	120-71-8	ND
15.	4,4'-methylene-bis-(2-chloro-aniline)/ 2,2'-dichloro-4,4'-methylene-dianiline	101-14-4	ND
16.	4,4'-oxydianiline	101-80-4	ND
17.	4,4'-thiodianiline	139-65-1	ND
18.	o-toluidine/2-aminotoluene	95-53-4	ND
19.	2,4-toluylenediamine/ 4-methyl-m-phenylenediamine	95-80-7	ND
20.	2,4,5-trimethylaniline	137-17-7	ND
21.	4-aminazobenzene	60-09-3	ND

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Test Report

No. SH7010827-1/ CHEM Date: Feb: 25, 2007

Page 5 of 8

- 22. o-anisidine/ 2-methoxyaniline
- 23. 2,4-Xylydin
- 24. 2,6-Xylydin

90-04-0 ND
95-68-1 ND
87-62-7 ND

#

Overall Rating

Relevant Requirement (2002/61/EC)

No relevant amine exceeding 30 ppm (mg/kg).

Note: N.D. = not detectable

Detection limit = 5 ppm (mg/kg)

Remark: For textiles no relevant amine exceeding 30ppm (mg/kg) is required, the test method is applicable for textile and the result is only for client information.

- the EN 14362-2 method will enable further cleavage of 4-aminoazobenzene to non-forbidden amines, aniline and 1,4-phenylenediamine, therefore, the test method of LFGB § 64 BVL B 82.02.9 - 2006 was employed to verify the presence of 4-aminoazobenzene
- EN-14362-2 for European directive 2002/61/EC is corresponding to LFGB § 64 BVL B 82.02.9 - 2006 of German commodities ordinance.

Forbidden Arylamines for Azo Dye Regulations

No. 1-22-Commission of the European Communities: Directive 2002/61/EC adopted by the Council on 19 July 2002

No. 1-20, 22-24- Client requirement

Test Part Description:

1. Yellow plastic board
2. Grey/copper metal foil



Test Report

No. SH7010827-1/ CHEM Date: Feb. 25, 2007

Page 6 of 8

Note:

- (1) mg/kg = ppm
- (2) ND = Not Detected
- (3) MDL = Method Detection Limit
- (4) Sum of Mono to NonaBDE & according to 2005/717/EC DecaBDE is exempt.
- (5) Spot-test:
Negative = Absence of CrVI coating, Positive = Presence of CrVI coating;
(The tested sample should be further verified by boiling-water-extraction method if the spot test result cannot be confirmed.)
Boiling-water-extraction:
Negative = Absence of CrVI coating
Positive = Presence of CrVI coating; the detected concentration in boiling-water-extraction solution is equal or greater than 0.02 mg/kg with 50 cm² sample surface area.
- (6) # = Positive indicates the presence of Hexavalent Chromium on the tested areas and result be regarded as conflict with RoHS requirement.
Negative indicates the absence of CrVI on the tested areas and result be regarded as no conflict with RoHS requirement.
- (7) "-" = Not Regulated
- (8) "ND" = Not Conducted
- (9) The maximum permissible limit is quoted from the document 2005/618/EC amending RoHS directive 2002/95/EC
- (10)**These tests were subcontracted to SGS-SHSL TEXTILE LAB (Date of testing: 2007/01/31-02/12).
- (11)*These tests were subcontracted to SGS Taiwan Ltd (Date of testing: 2007/02/02-02/12).

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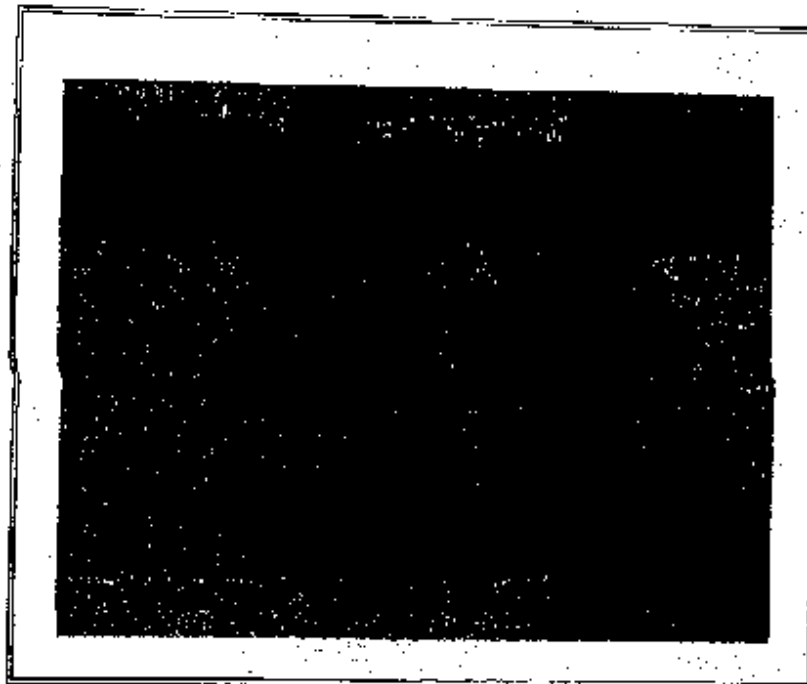
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Test Report

No. SH/010827-1/ CHEM Date: Feb. 25, 2007

Page 7 of 8

Sample photo:



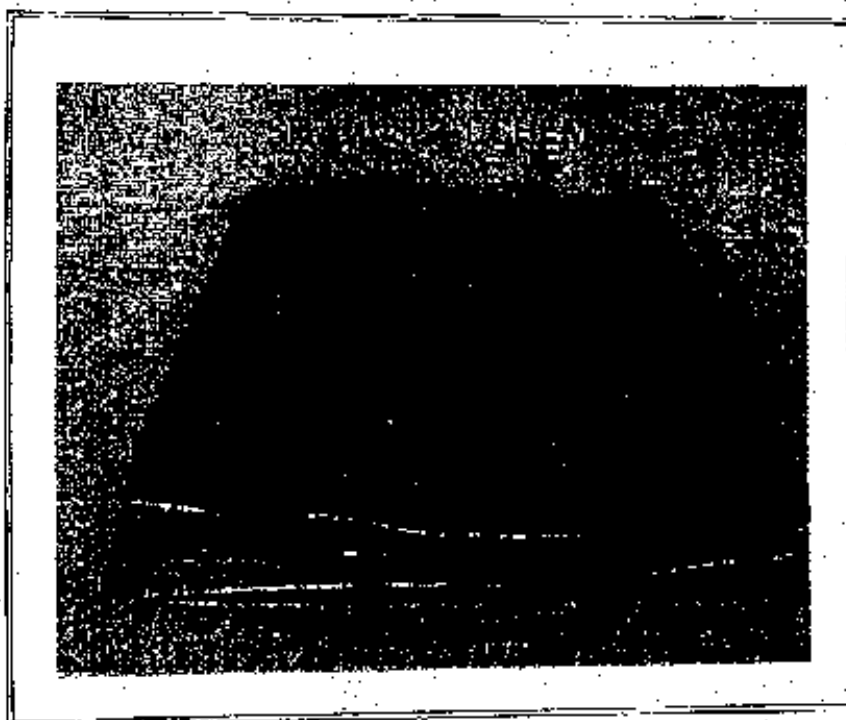
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Test Report

No. SH7010627-1/ CHEM Date: Feb. 25, 2007

Page 8 of 8



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