

**TEPCON**

Acetal Copolymer / POM

General Grade 一般級規格

Properties 特性	Test method	Unit	M90
Specific Gravity 比重	ISO 1183	g / cm <sup>3</sup>	1.41
Tensile Strength 抗拉強度	ISO 527-1,2	MPa	62
Tensile Elongation 拉伸率	ISO 527-1,2	%	35
Tensile Modulus 抗拉模數	ISO 527-1,2	MPa	2,700
Flexural Strength 彎曲強度	ISO 178	MPa	87
Flexural Modulus 彎曲模數	ISO 178	MPa	2,500
Charpy Impact 衝擊強度			
Notch Side 缺口	ISO 179 / 1eA	KJ / m <sup>2</sup>	6.0
Deflection Temperature under load (1.8MPa) 熱變形溫度	ISO 75-1,2	°C	95
Coefficient of Linear Thermal Expansion (Flow) 23~55°C 線膨脹係數(流動方向)	ISO 11359-2	x 10 <sup>-5</sup> / °C	12
Coefficient of Linear Thermal Expansion (Vertical) 23~55°C 線膨脹係數(垂直方向)	ISO 11359-2	x 10 <sup>-5</sup> / °C	12
Dielectric Strength (Short-time test:3mmt) 絕緣強度(3mmt)	IEC 60243-1	kV/mm	19
Volume Resistivity 體積阻抗	IEC 60093	Ω.cm	1 x 10 <sup>14</sup>
Surface Resistivity 表面阻抗	IEC 60093	Ω	1 x 10 <sup>16</sup>
Flammability UL94 耐燃性	UL94		HB
Static Charge Half Life(20°C, 65%RH) 靜電荷半衰期		Sec	> 50
Arc Resistance 電弧阻抗		Sec	240
Comparative Tracking Index (CTI) 相對軌跡指數		V	600+
UL Temperature Index 溫度指數			105~110
Electrical 電氣		°C	
Mechanical with Impact 機械式 具衝擊		°C	90~95
Mechanical without Impact 機械式 不具衝擊		°C	90~100

Note : All figures in this table are the typical values of the material and not the minimum value of the material specifications.

## Test Report

No.: GZSCR051185024/LP

Date: NOV 14, 2005

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HWA SHYANG INTERNATIONAL CO., LTD  
ZHANGWU INDUSTRIES ZONE, QIAOLI DISTRICT, CHANGPIN TOWN, DONGGUAN CITY, GUANGDONG  
523580, CHINA

Report on the submitted sample said to be POM FM090

SGS Ref No.	: GZ051115371EC
Item No.	: 20051103002
Buyer	: SONY
Supplier	: HWA SHYANG INTERNATIONAL CO., LTD
Manufacturer	: TAISUO (FORMOSACON)
Region of Origin	: TAIWAN
Country of Destination	: CHINA
Sample Receiving Date	: NOV 08, 2005
Testing Period	: NOV 08, 2005 TO NOV 14, 2005

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

Test method : (1) Cadmium content : With reference to BS EN 1122:2001 Method B see flowchart (1).  
 Lead content : Ashing after wet decomposition see flowchart (2).  
 Mercury content - With reference to EPA 3052: 1996.  
 Hexavalent Chromium content - with reference to EPA 3060A: 1996 & EPA 7196A: 1992 / acid digestion.  
 Analysis was performed by Atomic Absorption Spectrometer and Inductively Coupled Plasma Atomic Emission Spectrometer (ICP-AES) / UV-VIS Spectrophotometer.  
 (2) With reference to EPA 3540C / 3550C. Analysis was performed by GC/MS.

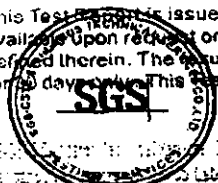
Results : Please refer to next page.

Signed for and on behalf of  
SGS-CSTC Ltd.



Zhang Li, Amy  
Sr. Engineer

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Results :

(1)

White plastic grains

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

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

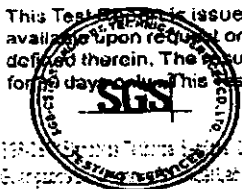
(2)

<u>White plastic grains</u>	
<b>Flame Retardants</b>	
<b>Polybrominated Biphenyls (PBBs)</b>	
Monobromobiphenyl	ND
Dibromobiphenyl	ND
Tribromobiphenyl	ND
Tetrabromobiphenyl	ND
Pentabromobiphenyl	ND
Hexabromobiphenyl	ND
Heptabromobiphenyl	ND
Octabromobiphenyl	ND
Nonabromodiphenyl	ND
Decabromodiphenyl	ND
<b>Polybrominated Diphenylethers (PBDEs)</b>	
Monobromodiphenyl ether	ND
Dibromodiphenyl ether	ND
Tribromodiphenyl ether	ND
Tetrabromodiphenyl ether	ND
Pentabromodiphenyl ether	ND
Hexabromodiphenyl ether	ND
Heptabromodiphenyl ether	ND
Octabromodiphenyl ether	ND
Nonabromodiphenyl ether	ND
Decabromodiphenyl ether	ND

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

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

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## Test Report

No.: GZSCR051185024/LP

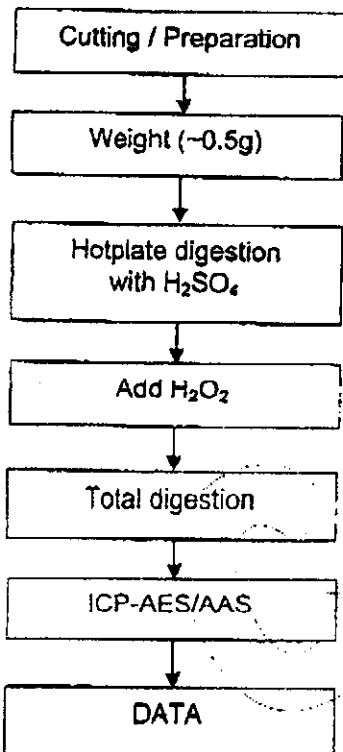
Date: NOV 14, 2005

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### ATTACHMENTS

(1)

Flow chart of digestion (Cadmium content) :



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

Operator : Sams Deng  
Leader : Joe Li

## Test Report

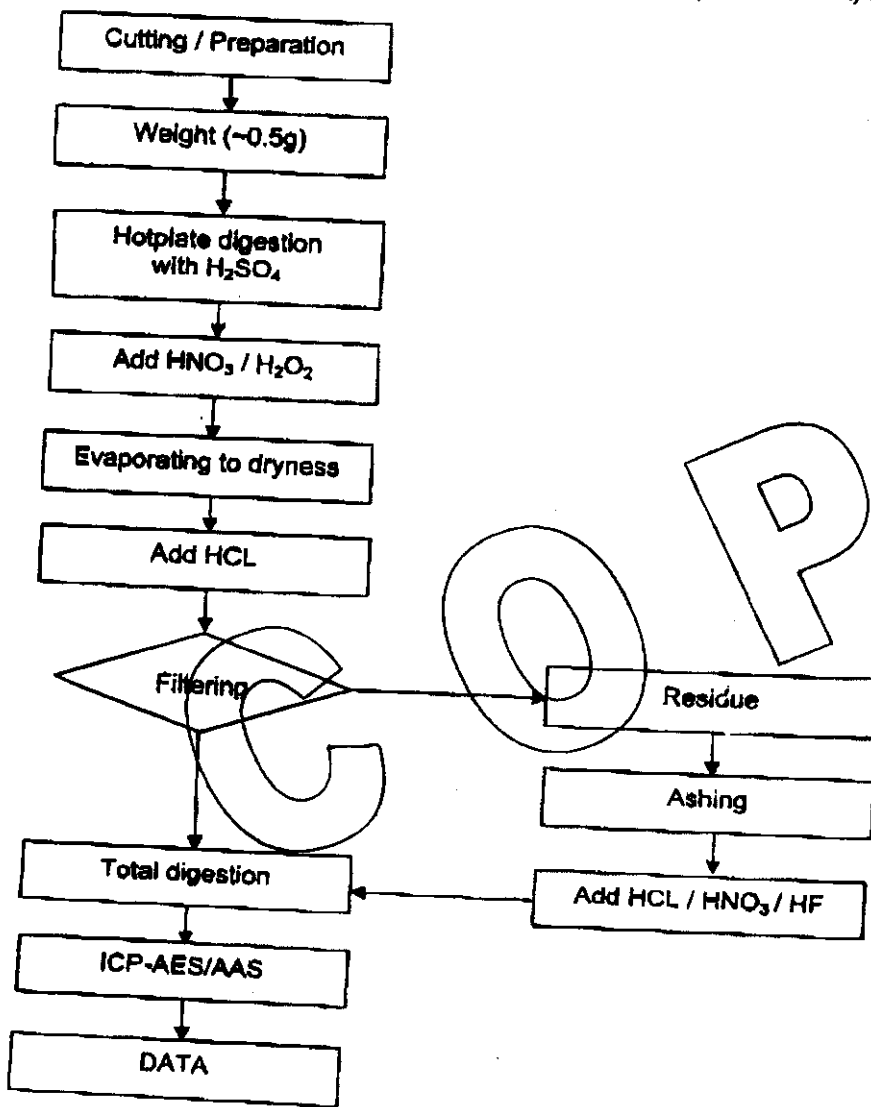
No.: GZSCR051185024/LP

Date: NOV 14, 2005

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(2)

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



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

Operator : Vincent Li  
Leader : Adams Yu

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## Test Report

No. GZ0602275781/CHEM

Date: FEB 27, 2006

Page 1 of 2

RONG HUI PLASTIC PIGMENT CO., LTD.  
ZHANG LUO INDUSTRIAL ZONE,  
ZHANGMUTOU, DONGGUAN, GUANGDONG, CHINA

Report on the submitted sample said to be **PLASTIC GRAIN BLACK**

SGS Ref No. : GZ060215624EC\*  
Item No. : 2014  
Sample Receiving Date : FEB 22, 2006  
Testing Period : FEB 22, 2006 TO FEB 27, 2006


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

Test Method : (1) Lead content - With reference to EPA method 3050B:1996/ other acid digestion.  
Cadmium content - With reference to BS EN1122: 2001 method B/other acid digestion.  
Mercury content - With reference to EPA 3052:1996/7473: 1998/ other acid digestion.  
Hexavalent Chromium content - with reference to EPA 3060A : 1996 & EPA 7196A: 1999.  
Analysis was performed by Atomic Absorption Spectrometer / Inductively Coupled Plasma Atomic Emission Spectrometer (ICP-AES) / Direct Mercury analyzer / UV-VIS Spectrophotometer  
(2) With reference to EPA 3540C / 3550C. Analysis was performed by GC/MS

Results : Please refer to the next page.

Conclusion : When tested as specified, the results shown on the report do not exceed the limit in commission decision of 18 Aug 2005 amending Directive 2002/95/EC (RoHS) notified under document 2005/618/EC.

Signed for and on behalf of  
SGS-CSTC Ltd.

  
Chang Li Amy  
Sr. Engineer

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## Test Report

No. GZ0602275781/CHEM

Date: FEB 27, 2006

Page 2 of 2

Results:

(1)

	Black plastic grains	Limit
Lead Content (Pb)(ppm)	22	<1000ppm
Cadmium Content (Cd)	N.D	<100ppm
Mercury Content (Hg)	N.D	<1000ppm
Hexavalent Chromium Content [Cr(VI)]	N.D	<1000ppm

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

(2)

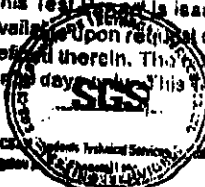
Flame Retardants	Black plastic grains	Limit
<b>Polybrominated Biphenyls (PBBs)</b>		
Monobromobiphenyl	N.D	< 1000ppm
Dibromobiphenyl	N.D	
Tribromobiphenyl	N.D	
Tetrabromobiphenyl	N.D	
Pentabromobiphenyl	N.D	
Hexabromobiphenyl	N.D	
Heptabromobiphenyl	N.D	
Octabromobiphenyl	N.D	
Nonabromodiphenyl	N.D	
Decabromodiphenyl	N.D	
<b>Polybrominated Diphenylether (PBDEs)(Mon-Non)</b>		
Monobromodiphenyl ether	N.D	<1000ppm
Dibromodiphenyl ether	N.D	
Tribromodiphenyl ether	N.D	
Tetrabromodiphenyl ether	N.D	
Pentabromodiphenyl ether	N.D	
Hexabromodiphenyl ether	N.D	
Heptabromodiphenyl ether	N.D	
Octabromodiphenyl ether	N.D	
Nonabromodiphenyl ether	N.D	
Decabromodiphenyl ether	N.D	See remark

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

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

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

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# CERTIFICATE OF TEST

## POONGSAN

Customer : JPN DOHO  
 Sheet No. : 0000005736  
 Specification : JIS H 3110 C5191R-H  
 Size : 0.200 (mm) X 305.000 (mm) X 0.000 (mm)  
 Date : 2005.01.12

Onsan Plant  
 611, DaeJung-Ri, Onsan-Myeon, Ulsan  
 Ulsan Metropolitan City, Korea  
 Tel : (052) 231-9114  
 Fax : (052) 231-9400

	Cu	Sn	P	Cu+Sn+P	Tensile Strength
	(%)	(%)	(%)	(%)	(N/mm <sup>2</sup> )
SPEC. Min	R	5.5000	0.0300	99.5000	580.000
MAX		7.0000	0.3500		667.000
4BEM1A0	R	5.8160	0.1525	99.9771	607.330
4BPH1C0	R	5.8830	0.1579	99.9759	607.820
4BQH1C0	R	5.9940	0.1605	99.9827	646.100

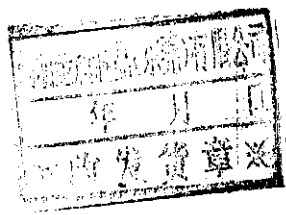
- Blank Line -

	Elongation	Hardness	Thickness (Outdiameter)	Width (Thickness)	Bending Test (Bendway)
	(%)	(Hv 1kg)	(mm)	(mm)	
SPEC. Min	18.000	190.000	0.190	304.000	180
MAX		210.000	0.210	306.000	180
4BEM1A0	18.000	204.000	0.200	305.000	Good
			0.202	305.070	
4BPH1C0	18.000	208.000	0.201	305.000	Good
			0.204	305.020	
4BQH1C0	18.000	208.000	0.201	305.000	Good
			0.203	305.000	

- Blank Line -

	Appearance	Weight (kg)
SPEC. Min		
MAX		
4BEM1A0	Good	4.694.000
BPH1C0	Good	1.173.000
BQH1C0	Good	1.172.000

Blank Line -



Total Weight : 7.039.000

Remark : We hereby certify that above material has been tested to comply with the specification

*A. K. Choi*



# CERTIFICATE OF TEST

## POONGSAN

Customer: JPN DOHO.  
 Sheet No: 0000006124  
 Specification: JIS H 3100 C2680B-H 0.4X310  
 Size: 0.400 (mm) X 310.000 (mm) X 0.000 (mm)  
 Date: 2005.02.15

	Cu (%)	Zn (%)	Pb (%)	Fe (%)	Tensile Strength (N/mm <sup>2</sup> )
SPEC. Min	64.0000	R			451.000
MAX	68.0000		0.0500	0.0500	539.000
51L96B0	65.3100	R	0.0025	0.0048	466.208
51R91D0	65.3500	R	0.0023	0.0067	473.661
51R93F0	65.2000	R	0.0024	0.0062	476.309
51R95E0	65.5000	R	0.0029	0.0063	480.036
	Elongation (%)	Hardness (Hv 1kg)	Thickness (Outdiameter) (mm)	Width (Thickness) (mm)	Bending Test (Bad way)
SPEC. Min	12.000	140.000	0.385	309.750	(180° ,
MAX		170.000	0.415	310.250	R/t=1.0)
51L96B0	23.000	149.000	0.397	310.000	Good
			0.406	310.040	
51R91D0	23.000	153.000	0.397	310.000	Good
			0.403	310.040	
51R93F0	23.000	153.000	0.398	310.000	Good
			0.407	310.040	
51R95E0	20.000	156.000	0.395	310.000	Good
			0.403	310.040	
	Appearance	Weight (kg)			
SPEC. Min					
MAX					
51L96B0	Good	4,402.000			
51R91D0	Good	1,115.000			
51R93F0	Good	4,745.000			
51R95E0	Good	2,062.000			



Remark: We hereby certify that above material has been tested to comply with the specification.

*H. K. Choi*

Manager of Quality Assurance Dept.

# 電暈分析儀化學成份 (Chemical Compositions) 測試報告

客戶名稱			出貨日期		
測試標準	JIS 星形標準	試材品名	C2700	試材規格	
化學試驗	CHEMICAL TESTING				
儀器名稱	X 光電暈分析儀 (VACUUM X RAY SPECTROGRAPH)				

元素名稱	標準範圍 %	試片含量 %	元素名稱	標準範圍 %	試片含量 %
銅 (Cu)	63-67	63.80	鐵 (Fe)	< 0.05	< 0.0012
鋅 (Zn)	Remainder	Remainder	錳 (Mn)	—	< 0.0030
鎳 (Ni)	0.07MAX	< 0.0030	鉍 (Bi)	—	< 0.0030
錳 (Sn)	Pb+Sn ≤ 0.5	< 0.0030	鉛 (Pb)	—	0
鎘 (Cd)	—	< 0.0030	鋁 (Al)	—	< 0.0030
磷 (P)	—	—	其他 (other)	—	< 0.0030



## Test Report

No : GZ0601009965/CHEM

Date: FEB 06, 2006

Page 1 of 1

DOHO METAL PRODUCTS (DONGGUAN) CO., LTD  
XI XING JIE, XI HU GONG YE YUAN, LIN CUN, TANG XIA ZHEN, DONG GUAN SHI, GUANG DONG  
PROVINCE, CHINA.

Report on the submitted sample said to be C2680R

SGS Ref No. : SZ060103348RS-6.4  
Sample Receiving Date : JAN 26, 2006  
Testing Period : JAN 26, 2006 TO FEB 06, 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	Golden metal sheet
Lead Content (Pb)	ppm	2	19
Cadmium Content (Cd)	ppm	2	N.D.
Mercury Content (Hg)	ppm	2	N.D.
Hexavalent Chromium (Cr VI)	ppm	2	N.D.

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

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

Signed for and on behalf of  
SGS-CSTC Ltd.

  
Huang Fang, Sunny  
Sr. Engineer

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## Test Report

No.: GZ0601009962/CHEM

Date: FEB 06, 2006

Page 1 of 1

DOHO METAL PRODUCTS (DONGGUAN) CO., LTD  
XIXING JIE, XI HU GONG YE YUAN, LIN CUN, TANG XIA ZHEN, DONG GUAN SHI, GUANG DONG PROVINCE,  
CHINA.

Report on the submitted sample said to be C5191R

SGS Ref No. : SZ060103348RS-6.1  
Sample Receiving Date : JAN 26, 2006  
Testing Period : JAN 26, 2006 TO FEB 06, 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	Coppery metal sheet
Lead Content (Pb)	ppm	2	13
Cadmium Content (Cd)	ppm	2	N.D.
Mercury Content (Hg)	ppm	2	N.D.
Hexavalent Chromium (Cr VI)	ppm	2	N.D.

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

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

Signed for and on behalf of  
SGS-CSTC Ltd.

Huang Fang, Sunny  
Sr. Engineer

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## Test Report

No.: GZ0602016856/CHEM

Date: FEB 24, 2006

Page 1 of 2

SEA RAY PLASTIC INDUSTRIAL CO., LTD  
3<sup>RD</sup> INDUSTRIAL ZONE, DAWANGSHAN SHAJING TOWN, BAOAN DISTRICT, SHENZHEN CITY, CHINA

Report on the submitted sample said to be 液镜硫酸镍

SGS Ref No. : SZ060205953RS-7.4  
Buyer : SONY  
Sample Receiving Date : FEB 20, 2006  
Testing Period : FEB 20, 2006 TO FEB 24, 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 EN 122: 2001 method B / other acid digestion.  
Mercury content - With reference to EPA 3052: 1996 / 7473: 1998 / other acid digestion.  
Analysis was performed by Atomic Absorption Spectrometer / Inductively Coupled Plasma Atomic Emission Spectrometer (ICP-AES).  
(2) With reference to the Committee Draft of IEC 62321, Ed:1 (Sec. 9.7.2 - Boiling-water-extraction method)

Results : Please refer to next page.

Signed for and on behalf of  
SGS-CSTC Ltd.



Huang Fang, Sunny  
Sr. Engineer

**Results :**

(1)

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

Silvery metal

8

N.D.

N.D.

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

(2)

Hexavalent Chromium [Cr(VI)]

Silvery metal

Negative

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

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

## Test Report

No.: GZ0602016853/CHEM

Date: FEB 24, 2006

Page 1 of 2

SEARAY PLASTIC INDUSTRIAL CO., LTD  
3<sup>RD</sup> INDUSTRIAL ZONE, DAWANG SHAN SHAJING TOWN, BAOAN DISTRICT, SHENZHEN CITY, CHINA

Report on the submitted sample said to be 滚镀银端子类

SGS Ref No. : SZ060205953RS-7.1  
Buyer : SONY  
Sample Receiving Date : FEB 20, 2006  
Testing Period : FEB 20, 2006 TO FEB 24, 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 / 7473: 1998 / other acid digestion.  
Analysis was performed by Atomic Absorption Spectrometer / Inductively Coupled Plasma Atomic Emission Spectrometer (ICP-AES).  
(2) With reference to the Committee Draft of IEC 62321, Ed.1 (Sec. 9.7.2 - Boiling-water-extraction method)

Results : Please refer to next page.

Signed for and on behalf of  
SGS-CSTC Ltd.



Huang Fang, Sunny  
Sr. Engineer

## Test Report

No.: GZ0602016853/CHEM

Date: FEB 24, 2006

Page 2 of 2

### Results :

(1)

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

Silvery metal

13

N.D.

N.D.

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

- ppm = mg/kg

(2)

Hexavalent Chromium [Cr(VI)]

Silvery metal

Negative

Note : - Negative means the concentration of Hexavalent Chromium extracted from 50cm<sup>2</sup> sample is less than the detection limit.

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

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

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