材质证明表

供应商:深圳市宝时达塑胶制品有限公司

日期:2010年 3月25 日

Material name	Element name composition	Element%(by weight)	ICP Test data(ppm)				Test date		
部件材质名	构成之元素名称	元素百分比(以重量计)	Cd	Pb	Hg	Cr6+	PBBS	PBDES	(检测日期)
	PA6T	67% 此部分请参考所提供的SGS报告							
PA6T	玻璃纤维	30%							2007年5月18日
	助剂	3%							

*表格列数不够可按格式自行增加附页

制表人:华晓茹

佛山市三环铜业有限公司产品品质保证书

本保证书希妥善保管,如对我公司的产品品质有异议,持保证书在一个月内与我公司联系,本公司将竭诚为您服务.

客户名称	科 特	<u> </u>	化学成分	(%):										
结算单号	QBB-518	*	铜Cu	65.	. 09	锌Zn 余量		余量 铁Fe		余量 铁Fe			0.003	
发货日期 —	2011-4-1	7※	锡Sn			磷P	/		铅Pb		0.003			
产品批号	A001	*	锑Sb	/	/ 硅Si /		,	铋Bi		/				
产品名称	黄铜棒	*	镍Ni	/	/	锰Mn	/		铝A1		/			
产品牌号	h65	*	银Ag	/	/	砷As	/		杂项总合		(0.02			
产品规格	0. 4*15. 5													
产品状态	Y	*	物理性能											
产品数量	25件	*	抗拉强原	度N/mm2		639. 1		延伸率%			/			
产品重量	1058. 58	*	杯笑	E 值		/		维氏硬度HV			182			
质保部长	李娜	*	表面质量	与公差(m	m):									
检验员:	邓招秀	*	厚度公差	: <u>±0</u>	. 005	宽度	公差:		表面质	质量:_	合格	<u>OK</u>		
九 执行标准:		GB/T	2059-2000		_ 填表员	ų:	麦建群		填表[∃期:	2011-4-	<u>17</u>		



Test Report No. CANEC1400258801 Date: 14 Jan 2014 Page 1 of 8

SHENZHEN BAO SHIDA PLASTIC PRODUCTS CO.,LTD.

NO.3 JIANG BIAN INDUSTRY PARK CENTRE ROAD, SONGGANG TOWN, BAOAN DISTRICT, SHENZHEN CHINA

The following sample(s) was/were submitted and identified on behalf of the clients as: PA6T

SGS Job No. : CP14-000376 - SZ

Date of Sample Received: 07 Jan 2014

Testing Period: 07 Jan 2014 - 13 Jan 2014

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

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

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

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

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

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

Signed for and on behalf of SGS-CSTC Ltd.

Yan Lee

Approved Signatory





No. CANEC1400258801

Date: 14 Jan 2014

Page 2 of 8

Test Results:

Test Part Description:

Specimen No. SGS Sample ID Description

SN1 CAN14-002588.001 Black plastic grains

Remarks:

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

(2) MDL = Method Detection Limit

(3) ND = Not Detected (< MDL)

(4) "-" = Not Regulated

RoHS Directive 2011/65/EU

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

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

(3)With reference to IEC 62321-4:2013, determination of Mercury by ICP-OES. (4)With reference to IEC 62321:2008, determination of Hexavalent Chromium by Colorimetric

Method using UV-Vis.

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

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





Test Report	No. CANEC14002588	No. CANEC1400258801		4 Jan 2014	Page 3 of 8
Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>	
Dibromodiphenyl ether	-	mg/kg	5	ND	
Tribromodiphenyl ether	-	mg/kg	5	ND	
Tetrabromodiphenyl ether	-	mg/kg	5	ND	
Pentabromodiphenyl ether	-	mg/kg	5	ND	
Hexabromodiphenyl ether	-	mg/kg	5	ND	
Heptabromodiphenyl ether	-	mg/kg	5	ND	
Octabromodiphenyl ether	-	mg/kg	5	ND	
Nonabromodiphenyl ether	-	mg/kg	5	ND	
Decabromodiphenyl ether	-	mg/kg	5	ND	

Notes:

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

Hexabromocyclododecane (HBCDD)

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

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

Notes:

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

Phthalate

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

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





Test Report No. CANEC1400258801 Date: 14 Jan 2014 Page 4 of 8

Notes:

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





No. CANEC1400258801

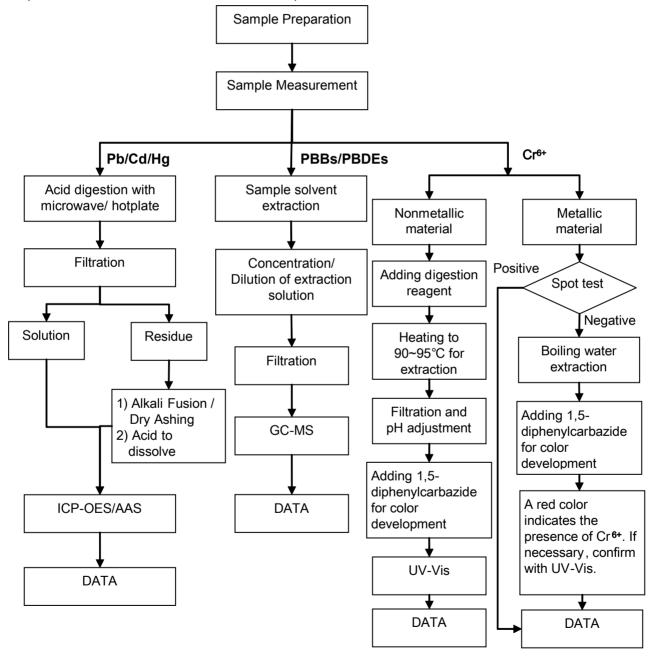
Page 5 of 8

Date: 14 Jan 2014

ATTACHMENTS

RoHS Testing Flow Chart

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







No. CANEC1400258801

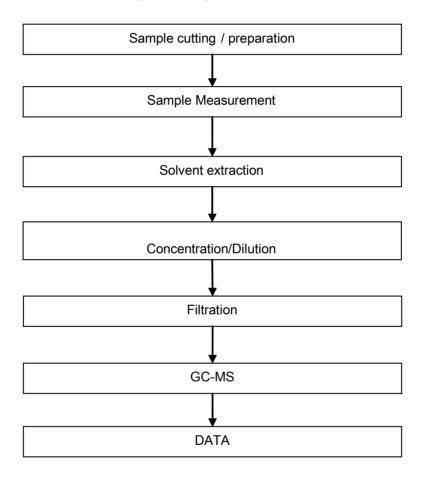
Page 6 of 8

Date: 14 Jan 2014

ATTACHMENTS

HBCDD Testing Flow Chart

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







No. CANEC1400258801

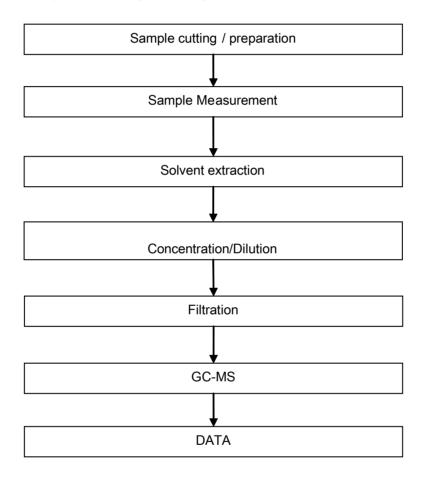
Page 7 of 8

Date: 14 Jan 2014

ATTACHMENTS

Phthalates Testing Flow Chart

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







No. CANEC1400258801

Date: 14 Jan 2014 Page 8 of 8

Sample photo:



SGS authenticate the photo on original report only

*** End of Report ***





Test Report No. CANEC1400105105 Date: 09 Jan 2014 Page 1 of 9

FOSHAN DEXIANGYUAN MATERIALS CO.,LTD

1/F-2/F,20 EAST OF THE FOSHANDAQIAO TOLL STATION NORTHCHANCHENG,FOSHAN CITY CHINA

The following sample(s) was/were submitted and identified on behalf of the clients as: C2680

SGS Job No.: CP14-000225 - GZ

Date of Sample Received: 03 Jan 2014

Testing Period: 03 Jan 2014 - 09 Jan 2014

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

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

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

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

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

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

Signed for and on behalf of SGS-CSTC Ltd.

Merry Lv

Approved Signatory





No. CANEC1400105105

Date: 09 Jan 2014

Page 2 of 9

Test Results:

Test Part Description:

Specimen No. SGS Sample ID Description

SN1 CAN14-001051.003 Brassy metal sheet

Remarks:

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

(2) MDL = Method Detection Limit

(3) ND = Not Detected (< MDL)

(4) "-" = Not Regulated

RoHS Directive 2011/65/EU

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

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

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

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

Colorimetric Method using UV-Vis.

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

Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>003</u>
Cadmium (Cd)	100	mg/kg	2	ND
Lead (Pb)	1,000	mg/kg	2	20
Mercury (Hg)	1,000	mg/kg	2	ND
Hexavalent Chromium (CrVI)	-	-	\Diamond	Negative
Sum of PBBs	1,000	mg/kg	-	ND
Monobromobiphenyl	-	mg/kg	5	ND
Dibromobiphenyl	-	mg/kg	5	ND
Tribromobiphenyl	-	mg/kg	5	ND
Tetrabromobiphenyl	-	mg/kg	5	ND
Pentabromobiphenyl	-	mg/kg	5	ND
Hexabromobiphenyl	-	mg/kg	5	ND
Heptabromobiphenyl	-	mg/kg	5	ND
Octabromobiphenyl	-	mg/kg	5	ND
Nonabromobiphenyl	-	mg/kg	5	ND
Decabromobiphenyl	-	mg/kg	5	ND
Sum of PBDEs	1,000	mg/kg	-	ND
Monobromodiphenyl ether	-	mg/kg	5	ND





Test Report	No. CANEC1400105105		Date: 0	9 Jan 2014	Page 3 of 9
Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>003</u>	
Dibromodiphenyl ether	-	mg/kg	5	ND	
Tribromodiphenyl ether	-	mg/kg	5	ND	
Tetrabromodiphenyl ether	-	mg/kg	5	ND	
Pentabromodiphenyl ether	-	mg/kg	5	ND	
Hexabromodiphenyl ether	-	mg/kg	5	ND	
Heptabromodiphenyl ether	-	mg/kg	5	ND	
Octabromodiphenyl ether	-	mg/kg	5	ND	
Nonabromodiphenyl ether	-	mg/kg	5	ND	
Decabromodiphenyl ether	-	mg/kg	5	ND	

Notes:

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

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

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

◇Boiling-water-extraction:

Negative = Absence of CrVI coating

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

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

Hexabromocyclododecane (HBCDD)

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

Test Item(s)	<u>Unit</u>	<u>MDL</u>	<u>003</u>
Hexabromocyclododecane (HBCDD)	mg/kg	10	ND

Notes:

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

PFOS (Perfluorooctane Sulfonates) and PFOA (Perfluorooctanoic Acid)

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



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Test Report No. CANEC1400105105 Date: 09 Jan 2014 Page 4 of 9

Test Item(s)	<u>Unit</u>	<u>MDL</u>	003
Perfluorooctane Sulfonates (PFOS) and related	mg/kg	10	ND
Acid,Metal Salt and Amide			
Perfluorooctanoic Acid (PFOA)	ma/ka	10	ND

Notes:

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

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

Phthalate

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

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

Notes:

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



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No. CANEC1400105105

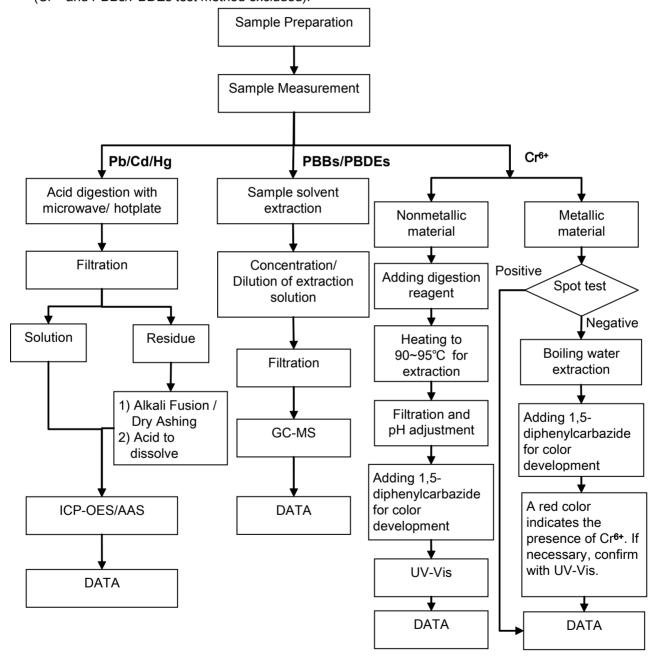
Page 5 of 9

Date: 09 Jan 2014

ATTACHMENTS

RoHS Testing Flow Chart

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







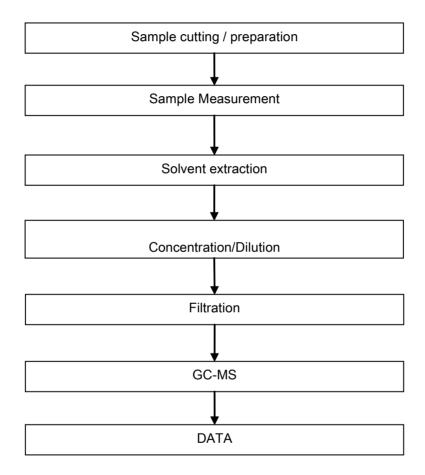
No. CANEC1400105105

Date: 09 Jan 2014 Page 6 of 9

ATTACHMENTS

Phthalates Testing Flow Chart

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







No. CANEC1400105105

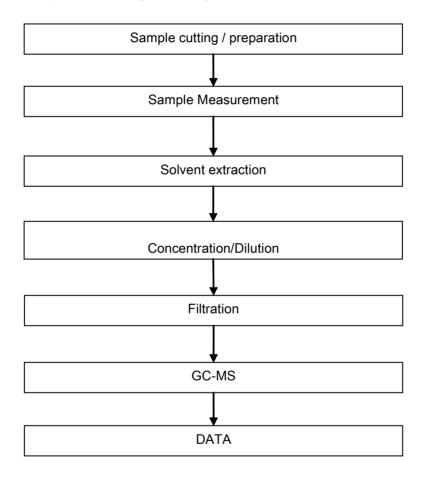
Date: 09 Jan 2014

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ATTACHMENTS

HBCDD Testing Flow Chart

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







No. CANEC1400105105

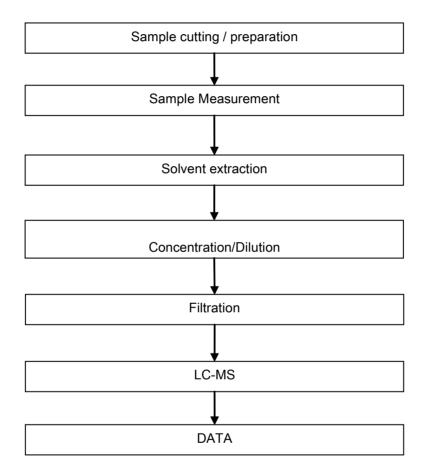
Date: 09 Jan 2014

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ATTACHMENTS

PFOA / PFOS Testing Flow Chart

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





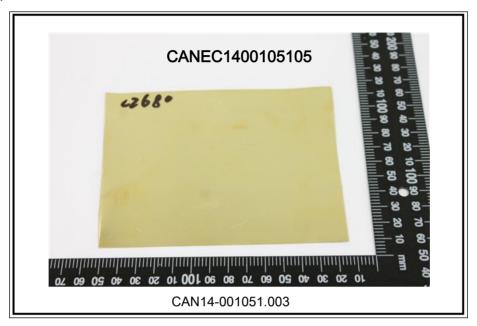


No. CANEC1400105105

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Date: 09 Jan 2014

Sample photo:



SGS authenticate the photo on original report only

*** End of Report ***





测试报告 No. CANML1307244601 日期: 2013年05月22日 第1页,共4页

深圳市嘉鸿泰实业有限公司

中国深圳市宝安区沙井镇共和村第六工业区A区28车间2栋3楼

以下测试之样品是由申请者所提供及确认:镀金层

SGS工作编号: GC130502721 - GZ

内部编号: 3.1

样品接收日期: 2013年05月16日

测试周期: 2013年05月16日 - 2013年05月22日

测试要求: 根据客户要求测试

测试方法: 请参见下一页 测试结果: 请参见下一页

结论: 基于所送样品进行的测试,镉、铅、汞、六价铬的测试结果符合欧盟RoHS指

令2002/95/EC的重订指令2011/65/EU附录II的限值要求。

通标标准技术服务有限公司

授权签名

Kenny Wang王伟利

批准签署人

备注: 根据客户申请, SGS出具了此中文报告, 英文版本可根据客户要求提供. (The Chinese test report is issued according to the applicant's request. The English version is available from SGS if further needed)

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测试报告 No. CANML1307244601 日期: 2013年05月22日 第2页,共4页

测试结果:

测试样品描述:

样品编号 SGS样品ID 描述

1 CAN13-072446.001 带金色镀层的银色金属

备注:

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

(2) MDL = 检测极限值

(3) ND = 未检出 (< MDL)

(4) "-" = 未规定

RoHS指令2011/65/EU

测试方法: 参考IEC 62321:2008:

(1) 用ICP-OES测定镉的含量 (2) 用ICP-OES测定铅的含量

(3) 用ICP-OES测定汞的含量

(4) 用点测试法/紫外-可见分光光度计比色法测定六价铬的含量

测试项目	<u>限值</u>	<u>单位</u>	<u>MDL</u>	<u>001</u>
镉(Cd)	100	mg/kg	2	ND
铅(Pb)	1,000	mg/kg	2	10
汞(Hg)	1,000	mg/kg	2	ND
六价铬(Cr(VI))	-	-	\Diamond	阴性

备注:

- (1) 最大允许极限值引用自指令2011/65/EU 附录II.
- (2) ◊点测试法:

阴性= 未检测到六价铬, 阳性= 检测到六价铬;

(当点测试结果为阴性或无法确定时,将采用沸水萃取法作进一步的结果验证.)

◇沸水萃取法:

阴性= 未检测到六价铬

阳性= 检测到六价铬; 表明50 cm²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0.02 mg/kg

由于未获知样品的存储条件和生产日期,样品的六价铬测试结果仅能代表测试时样品含六价铬的状态。

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No. CANML1307244601

日期: 2013年05月22日 第

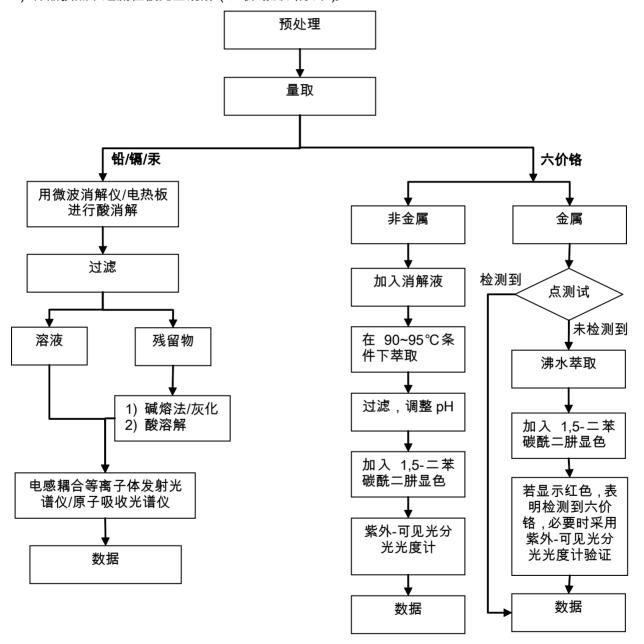
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附件

RoHS 测试流程图

1) 分析人员:曹阳 2) 项目负责人:余奕东

3) 样品按照下述流程被完全消解(六价铬测试除外)。



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深圳市嘉鸿泰实业有限公司 中国深圳市宝安区沙井镇共和村第六工业区A区28车间2栋3楼

以下测试之样品是由申请者所提供及确认:镀镍层

SGS工作编号: GC130502721 - GZ

内部编号: 3.3

样品接收日期: 2013年05月16日

测试周期: 2013年05月16日 - 2013年05月22日

测试要求: 根据客户要求测试

测试方法: 请参见下一页 测试结果: 请参见下一页

结论: 基于所送样品进行的测试,镉、铅、汞、六价铬的测试结果符合欧盟RoHS指

令2002/95/EC的重订指令2011/65/EU附录II的限值要求。

通标标准技术服务有限公司

授权签名

Kenny Wang王伟利

批准签署人

备注: 根据客户申请, SGS出具了此中文报告, 英文版本可根据客户要求提供. (The Chinese test report is issued according to the applicant's request. The English version is available from SGS if further needed)

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测试结果:

测试样品描述:

样品编号 SGS样品ID 描述

1 CAN13-072446.003 带银色镀层的金属

备注:

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

(2) MDL = 检测极限值

(3) ND = 未检出 (< MDL)

(4) "-" = 未规定

RoHS指令2011/65/EU

测试方法: 参考IEC 62321:2008:

(1) 用ICP-OES测定镉的含量 (2) 用ICP-OES测定铅的含量

(3) 用ICP-OES测定汞的含量

(4) 用点测试法/紫外-可见分光光度计比色法测定六价铬的含量

<u>测试项目</u>	<u>限值</u>	<u>单位</u>	<u>MDL</u>	<u>003</u>
镉(Cd)	100	mg/kg	2	ND
铅(Pb)	1,000	mg/kg	2	37
汞(Hg)	1,000	mg/kg	2	ND
六价铬(Cr(VI))	-	-	\Diamond	阴性

备注:

- (1) 最大允许极限值引用自指令2011/65/EU 附录II.
- (2) ◊点测试法:

阴性= 未检测到六价铬, 阳性= 检测到六价铬;

(当点测试结果为阴性或无法确定时,将采用沸水萃取法作进一步的结果验证.)

◇沸水萃取法:

阴性= 未检测到六价铬

阳性= 检测到六价铬; 表明50 cm²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0.02 mg/kg

由于未获知样品的存储条件和生产日期,样品的六价铬测试结果仅能代表测试时样品含六价铬的状态。

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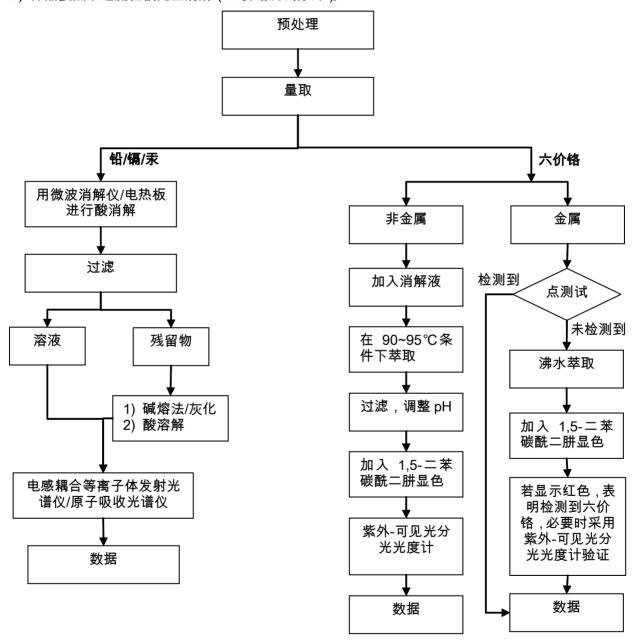
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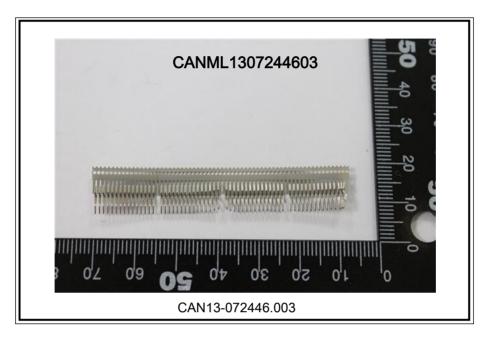


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