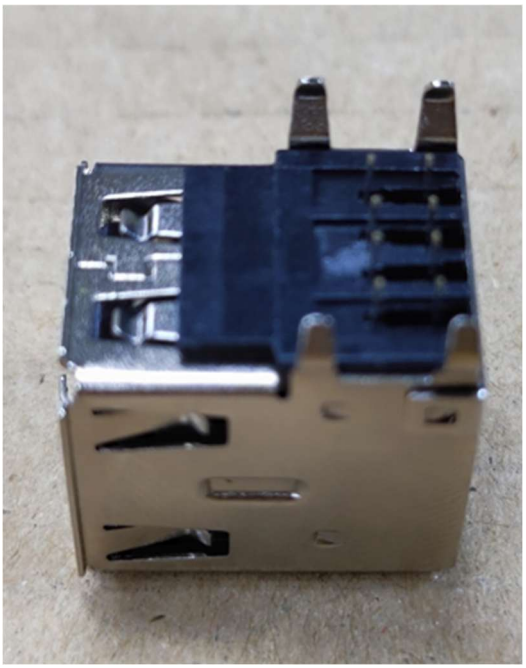

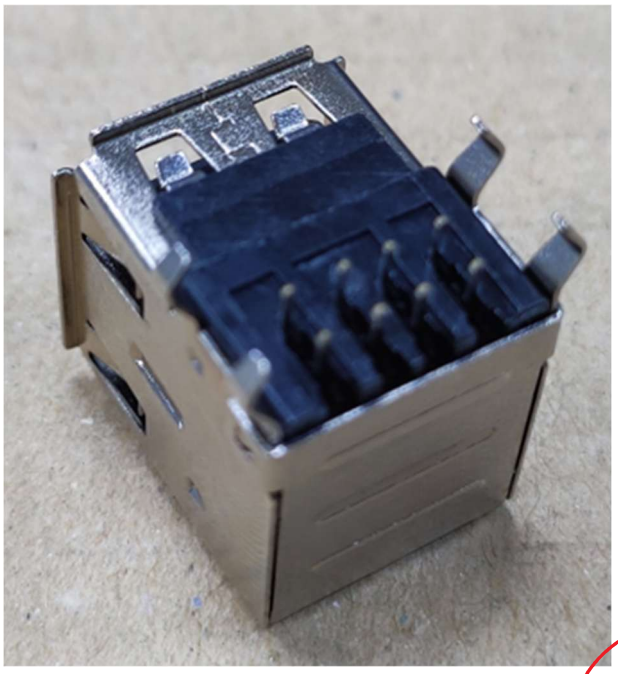





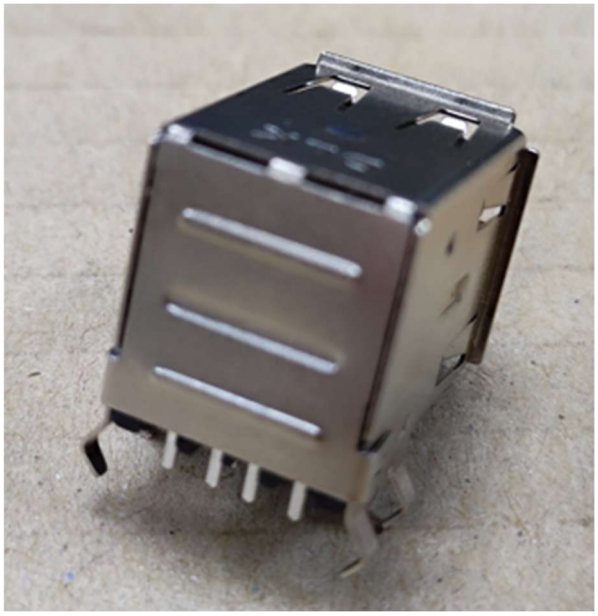



設計驗證
工程課
2025 -06- 27
發行

承　認　書

SPECIFICATION FOR APPROVAL

客　　户：　鈺緯科技開發股份有限公司
CUSTOMER

品　　名：　USB 2.0雙層 A TYPE 8PIN 帶彈片 CONN.
DESCRIPTION

DIVA 料號：　3FU00801610 (F0319)
DIVA P/N.

Qisda 料號：　2B.12218.A91
Qisda P/N.

設計驗證
工程課
2025 -06- 27
發行
鈺緯科技開發股份有限公司

DLK 料號：　USA42D-08BS1YN23
Qisda P/N.

客户承认意见栏 CUSTOMER APPROVED BY

台湾德力康电子科技有限公司
DLK ELECTRONICS TECHNOLOGY CO.,LTD
地址：桃园市桃园区大兴西路二段 6 号 4 楼之五
TEL：886-3-2151526 / 2151599

核准		审核		制作	邱宇	日期	2025 年 06 月 12 日

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Specification

8. 环境管理物质不使用证书

Environmental management material don't use certificate

COMPONENT SPEC VERSION RECORD

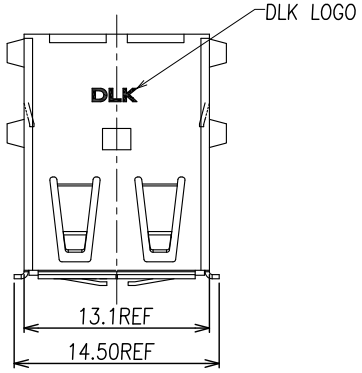
CUSTOMER PART NO.	3FU00801610	DLK PART NO.	USA42D-08BS1YN23

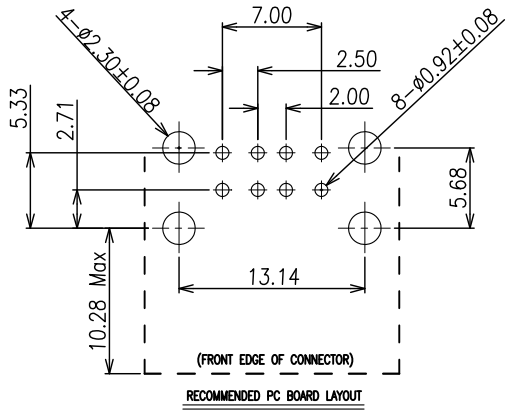
VER	MINUTE OF CHANGES	DLK CHECK	RELEASE DATE
A	CHECKED AND RELEASED	邱宇	2024-4-10

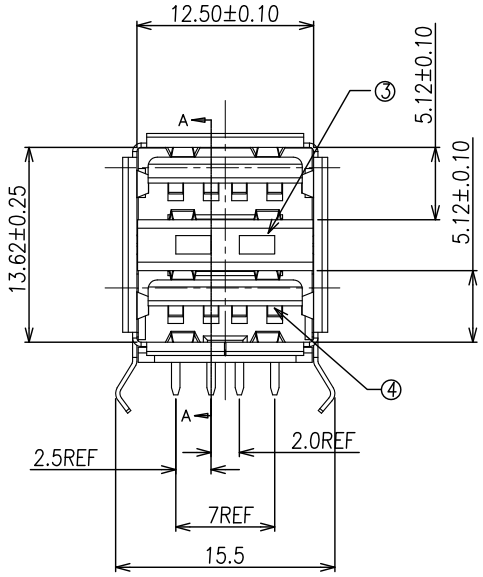
符合"DLK环境管理物质技术标准"

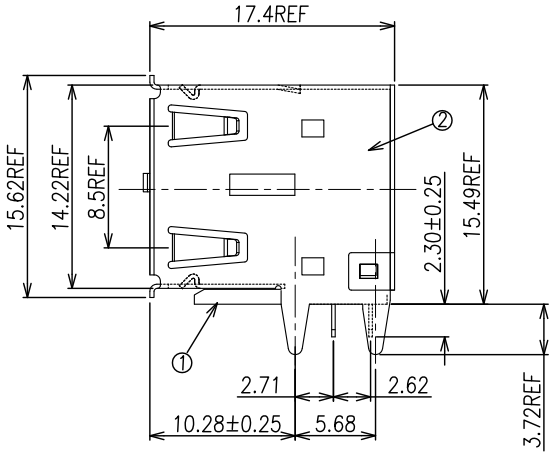
符合"USB协会标准"

工程变更通知单 ECN(DCN) NO.	版本 REV	日期 DATE	说明 DESCRIPTION	变更 CHANGE	核准 APPRO.
KSECN23021	A	20230706	NEW	——	——









USA42 D-08 B S1 Y N2 3

① ② ③ ④ ⑤ ⑥ ⑦

① PRODUTION CODE（产品编码）:
USA42: USB 2.0

② CHARACTER（特征）:
D:DIP TYPE

③ POSITION（位数）:
08: 8PIN

④ COLOR OF HOUSING(本体颜色）:
B:BLACK

⑤ PLATING OF CONTACT(端子电镀）:
S1 : Au 1U" AND TIN 100U" PLATED

⑥ PACKAGE(包装）:
Y :TRAY PACKAGE

⑦ PLATING OF SHELL(铁壳电镀）:
N2 :Ni plated

設計驗證 工程課 2025-06-27 發行 廷康科技開發股份有限公司

NOTES:
1.MECHANICAL:
INITIAL MATING: 35N MAX.
INITIAL WITHDRAWAL: 10N MIN.
2.ELECTRICAL:
CURRENT: 1.5A MAX
VOLTAGE: 30V MAX
WITHSTANDING VOLTAGE: 500V AC
CONTACT RESISTANCE: 30 mΩ MAX
INSULATION RESISTANCE: 100MΩ MIN
3.ENVIRONMENTAL
TEMPERATURE RANGE −55°C ~ +85°C

3FU00801610(F0319)

NO.	ITEM	Q'TY	DESCRIPTION	FINISH
4	CONTACT	8	BRASS	Au PLATED
3	MIDDLE SHELL	1	SPCC	Ni PLATED
2	SHELL	1	SPCC	Ni PLATED
1	HOUSING	1	PBT	UL94V-0

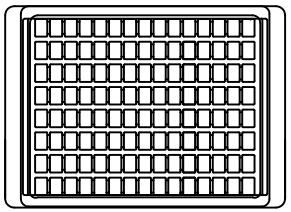
GENERAL TOLERANCE UNLESS OTHERWISE NOTED	
Angle	±5°
X.	±0.30
.X	±0.25
.XX	±0.15
.XXX	±0.10
A4	

德力康电子科技有限公司
DLK DELIKANG ELECTRONICS TECHNOLOGY CO.,LTD

C 名称 TITLE:	USB 2.0双层 A TYPE 8PIN 带弹片 CONN.				
档案名称 FILE NAME.	C-USA42-00-23		料号 PART NO:	USA42D-08BS1YN23	
DRAWING	蒋 召	CHECKED	覃智森	APPROVED	段国强
UNIT:	mm	SCALE	1:1	SHEET: 1 of 1	

符合"DLK环境管理物质技术标准"

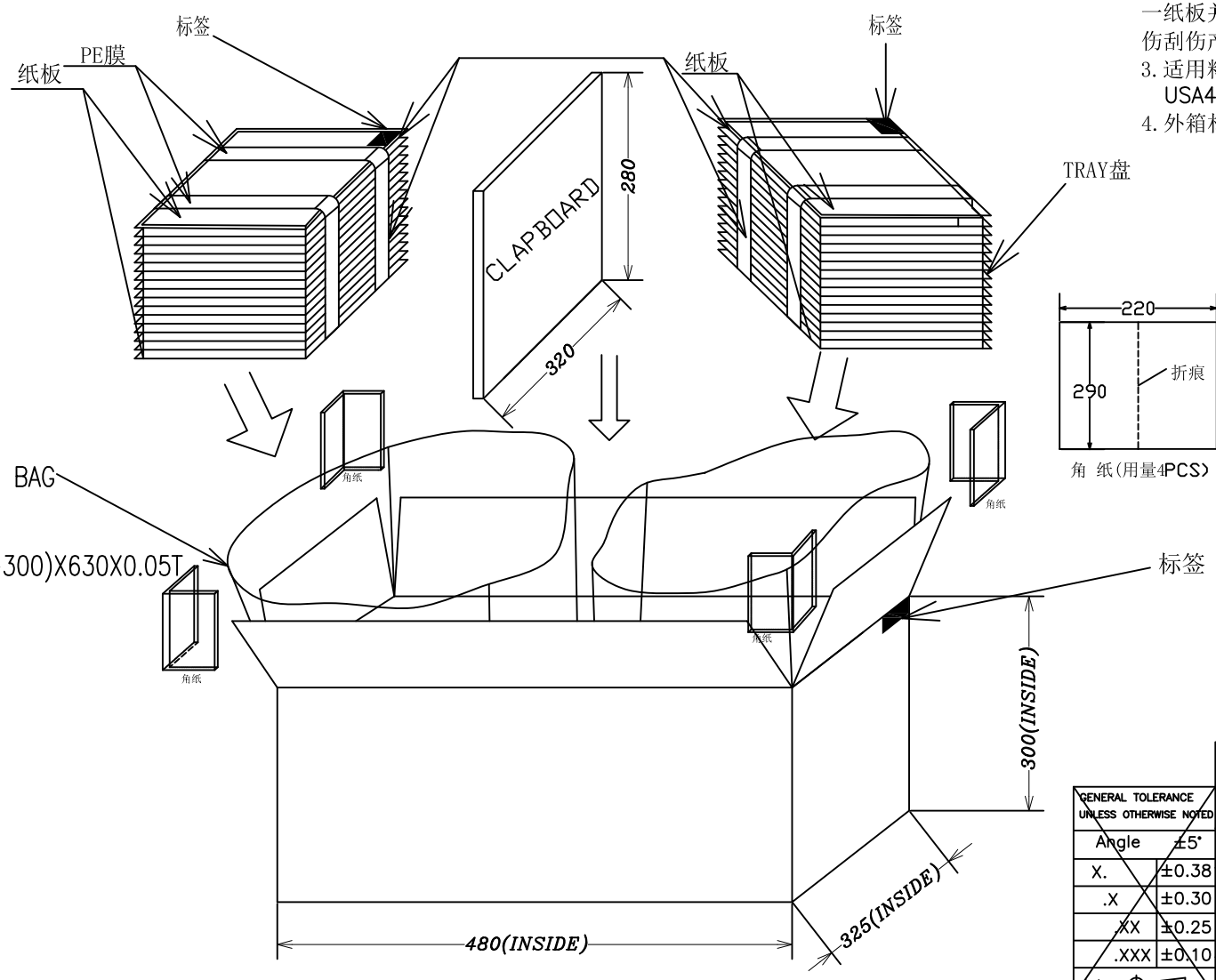
工程变更通知单 ECN(DCN) NO.	版本 REV	日期 DATE	说明 DESCRIPTION	改变 CHANGE	承认 APPRO.
KSECN23021	A	20230706	NEW	——	——



产品

包装说明：

1. 数量：
   一盘=100Pcs
2. 每一叠配一个上盖，在每叠产品右上角帖标签，每叠上下各放一纸板并用PE膜缠紧，封口后放入纸箱；包装过程中注意不可碰伤刮伤产品。
3. 适用料号：
   USA42D-08BS1YN23
4. 外箱材质K=K,要求5层瓦楞纸，破裂强度为6Kg Min.



角 纸(用量4PCS)

GENERAL TOLERANCE UNLESS OTHERWISE NOTED	
Angle	±5°
X.	±0.38
.X	±0.30
.XX	±0.25
.XXX	±0.10
A4	

德力康电子科技有限公司
DELIKANG ELECTRONICS TECHNOLOGY CO.,LTD

C	名称 TITLE:	USB A TYPE 8PIN 带弹片 包装图			
档案名称 FILE NAME.	C-USA42-00-23		料号 PART NO:	USA42D-08BS1YN23	
DRAWING	邱 宇	CHECKED	覃智森	APPROVED	段国强
UNIT:	mm	SCALE	1:1	SHEET: 1 of 1	

Material BOM List

料件名稱/料號 : USA42D-08BS1YN23

廠商名稱 : DLK

版本 Version :A

Customer P/N :3FU00801610

日期 Date : 2024-4-10

依循國際標準或是協會標準: 依据USB协会规范

項目 ITEM	部位 Position description	廠商名稱 supplier	底材材質 Bottom material	FLAME , UL NO	顏色,色碼 Color , Number	底材主要組成 Component of Bottom material	第一層材質 Material of first layer	鍍層濃度範圍 Plating layer thickness	第二層材質 Material of Second layer
1	Housing	TS/DLK	PBT	UL:E321019 UL94V-0	BLACK				
2	Contact	GT/DLK	C2680			Cu	Ni	50u″Min	接触端：Au 焊锡端：Matte Tin
3	Shell	HW/DLK	SPCC			Fe	Ni	40u″Min	
4	MIDDLE SHELL	HW/DLK	SPCC			Fe	Ni	40u″Min	

Note = Paint thickness unit : u''

Approve:段国强　　Check:覃智森　　Prepare:邱宇

Need more information? **Click Here** to go to the UL iQ™ for Plastics database

Component - Plastics **E321019**

TAISU PLASTIFICATION MATERIAL SCI&TECH CO LTD

TAISU INDUSTRIAL ZONE, FENGXIN RD, GUANGMING NEW DISTRICT, SHENZHEN GUANGDONG 518107 CN

PBT T301 00 GF

Polybutylene Terephthalate (PBT), glass reinforced, furnished as pellets

Color	Min Thk (mm)	Flame Class	HWI	HAI	RTI Elec	RTI Imp	RTI Str
NC, RD, BK	0.4	V-0	4	1	75	75	75
ALL	0.8	V-0	3	1	75	75	75
	1.6	V-0	2	1	75	75	75
	3.0	V-0	0	1	75	75	75

Comparative Tracking Index (CTI): -

Inclined Plane Tracking (IPT): -

Dielectric Strength (kV/mm): **30**

Volume Resistivity (10^X ohm-cm): **18**

High-Voltage Arc Tracking Rate (HVTR): -

High Volt, Low Current Arc Resis (D495): -

Dimensional Stability (%): -

ANSI/UL 94 small-scale test data does not pertain to building materials, furnishings and related contents. ANSI/UL 94 small-scale test data is intended solely for determining the flammability of plastic materials used in the components and parts of end-product devices and appliances, where the acceptability of the combination is determined by UL.

Report Date: 2013-03-28

Last Revised: 2013-03-28

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IEC and ISO Test Methods

Test Name	Test Method	Units	Thickness Tested (mm)	Value
Flammability	**IEC 60695-11-10**	**Class (color)**	**0.4**	**V-0 (NC, RD, BK)**
			0.8	**V-0 (ALL)**
			1.6	**V-0 (ALL)**
			3.0	**V-0 (ALL)**
Glow-Wire Flammability (GWFI)	**IEC 60695-2-12**	**C**	**0.4**	**960**
			0.8	**960**
			1.6	**960**
			3.0	**960**
Glow-Wire Ignition (GWIT)	**IEC 60695-2-13**	**C**	**0.4**	**825**
			0.8	**825**
			1.6	**825**
			3.0	**825**
IEC Comparative Tracking Index	**IEC 60112**	**Volts (Max)**	**3.0**	**CTI2**
IEC Ball Pressure	**IEC 60695-10-2**	**C**	**-**	**-**
ISO Heat Deflection (1.80 MPa)	**ISO 75-2**	**C**	**-**	**-**
ISO Tensile Strength	**ISO 527-2**	**MPa**	**-**	**-**
ISO Flexural Strength	**ISO 178**	**MPa**	**-**	**-**

ISO Tensile Impact	**ISO 8256**	**kJ/m^2**	**-**	**-**
ISO Izod Impact	**ISO 180**	**kJ/m^2**	**-**	**-**
ISO Charpy Impact	**ISO 179-2**	**kJ/m^2**	**-**	**-**

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The materials covered in this database are incomplete in certain constructional features or restricted in performance capabilities and are intended for use as components of complete equipment submitted for investigation rather than for direct separate installation in the field. THE FINAL ACCEPTANCE OF THE COMPONENT IS DEPENDENT UPON ITS INSTALLATION AND USE IN COMPLETE PRODUCTS SUBMITTED TO UNDERWRITERS LABORATORIES.

Notice of Disclaimer

PRODUCT SPECIFICATION

1.0 Applicable Connector: Applicable to DLK USB Series connector.

(适用于德力康公司 USB 系列连接器.)

Scope: This specification covers the requirements for product performance and test methods of DLK’s USB Series Connectors of the part numbers specified as bellow.

(覆盖范围：此规格书内容含盖德力康公司 USB 系列连接器产品性能及测试方法。)

2.0 Rating(要求)：

2.1 Rated Voltage: <36 V AC,DC(额定电压：＜36 V)

2.2 Rated Current:A current of 1.8 A shall be applied to VBUS pin and its corresponding GND pin (pin 1 and pin 4 of the USB 3.1 Standard-A and Standard-B connectors; pin 1 and pin 5 of the USB 3.1 Micro connector family). Additionally, a minimum current of 0.25 A shall be applied to all the other contacts.

(VBUS 引脚及其对应的 GND 引脚(USB 3.1 Standard-A 和 Standard-B 连接器的引脚 1 和引脚 4，USB 3.1 Micro 连接器系列的引脚 1 和引脚 5)应施加 1.8 A 的电流；此外，所有其他触点的最小电流应为 0.25 A。)

2.3 Electric Pressure: Keeping 60 second in AC 100V/1mA(耐压 100 AC 持续 60 秒)

2.4 Insulation Resistance: 100 MΩ Min. in DC 500V(绝缘阻最小 100 兆欧)

2.5 Contact Resistance: 30 mΩ Max. (接触阻抗最大 30 毫欧)

2.6 Temperature Range:-20℃ to +85℃.(适用温度范围：-20℃ 至 +85℃)

3.0 Test Condition(测试条件):

All tests shall be performed as bellow conditions unless otherwise specified.

(所有的测试都在下列条件下完成，除非另有说明.)

3.1 Temperature range : 15℃to35℃.(温度：15℃至 35℃)

3.2 Humidity range: 25%to85%.(湿度：25%至 85%)

3.3 Atmospheric Pressure : 86 to 106 kPa (大气压力： 86 至 106 千帕)

4.0 Test Methods and Requirements(测试方法和要求)：

4.1 Examination of product(检查尺寸):

Item (条目)	Test Description (测试内容)	Test Methods (测试方法)	Requirement (要求)
4.1.1	Examination of product Outward Appearance Structure (产品外形/尺寸检查)	Shall be confirm with eyes in accordance with each drawing. Shall be confirmed by using proper measuring instruments. (依照图面要求对产品目视检查，再用测量工具，按图面要求测量尺寸)	Outward appearance shall be good without such injurious problem structure shall be meet the design and dimensional requirements of drawing (外观良好，无任何有害问题；结构符合图面设计要求。)

4.2 Electrical performance(电气性能)：

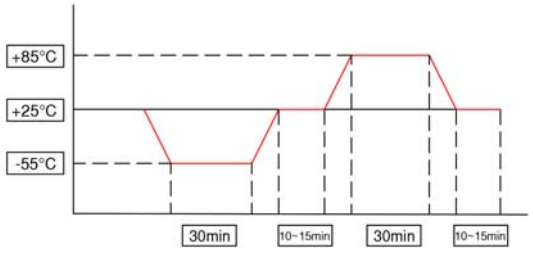
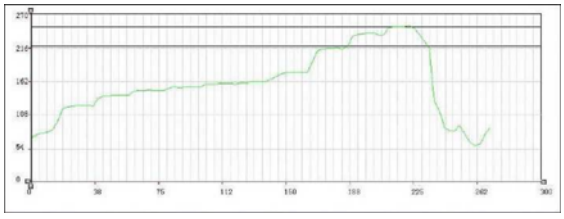
Item (条目)	Test Description (测试内容)	Test Methods (测试方法)	Requirement (要求)
4.2.1	Contact Resistance (接触阻抗)	Mated connectors. Contact: measure by dry circuit, 20 mV max,100mA Shell: measured by open circuit, 5 Volts maximum, 100mA. (ANSI/EIA-364-06A-83) (配对的连接器，端子在回路施加直流最大 20mV 100mA 的电流；铁壳在回路施加直流最大 5V 100mA 的电流；再测量相对应端子或铁壳的电阻值)	Excluding conductor resistance : 30 mΩ max. (接触阻抗最大不能超过 30 毫欧)
4.2.2	Insulation Resistance (绝缘阻抗)	Applied DC 500 Volts for 1minute between adjacent terminal. (ANSI/EIA 364-21, Method 302) (在相邻的端子间施加 DC 500V 的电压测试 1 分钟；)	Inception：100MΩ minimum (初始最小为 100 兆欧)
4.2.3	Dielectric Strength (耐电压)	Applied AC 500 Volts and current 1mA for 1minute between adjacent terminal . (ANSI/EIA 364-20,Method 301) (在相邻的端子间施加 AC 100V 的电压与 1mA 电流测试 1 分钟；)	1)No flashover or insulation breakdown (无断裂击穿现象) 2)Leakage current: 0.5mA Maximum (漏电电流最大为 0.5 毫安)

4.3 Mechanical Performance(机械性能):

Item (条目)	Test Description (测试内容)	Test Methods (测试方法)	Requirement (要求)
4.3.1	Insertion Force (插入力)	Solder each of the plug and receptacle connector to the P.C.Board then do insertion/extraction along the axis 3 times at speed 12.5mm. After place each of the P.C.Board onto the push-on/pull-off machine to be measurement the insertion force. (ANSI/EIA-364-13) (将公、母座焊接在 PCB 板上，再将 PCB 板置于插拔力实验机上，然后以每分钟 12.5mm 的速度沿轴向插拔 3 之次后再测试其插入力。)	Insertion Force：35N Max. 插入力： 35N Max.
4.3.2	Withdrawal Force (拔出力)	Solder each of the plug and receptacle connector to the P.C.Board then do insertion/extraction along the axis 3 times at speed 12.5mm. After place each of the P.C.Board onto the push-on/pull-off machine to be measurement the insertion force. (ANSI/EIA-364-13) (将公、母座焊接在 PCB 板上，再将 PCB 板置于插拔力实验机上，然后以每分钟 12.5mm 的速度沿轴向插拔 3 之次后再测试其拔出力。)	Withdrawal Force：10N Min. 拔出力： 10N Min.
4.3.3	Durability (寿命)	Solder each of the plug and receptacle connector to the P.C. Board,then place each of the P.C. Board onto the push-on/pull-off machine,then do insertion / Withdrawal 1500 cycles along the axis at speed of 200±50 cycles per hours (ANSI/EIA 364-09) (将公、母座焊接在 PCB 上，再将 PCB 板置于耐插拔实验机上，然后以每小时 200±50 次的速度沿轴向插拔 1500 次)	1)Insertion Force：35N Max. 插入力： 35N Max. 2)Withdrawal Force：8N Min. 拔出力： 8N Min. 3)Contact Resistance:40 mΩ Max. (接触阻抗最大 40 毫欧)

4.4 Environmental Performance(环境性能):

Item (条目)	Test Description (测试内容)	Test Methods (测试方法)	Requirement (要求)
4.4.1	Withstand humidity (恒温恒湿)	Solder each of the plug and receptacle connector to the P.C.Board ,then mate them together and exposed at temperature of 50℃±2℃ and humidity of 90-95% for a period of 96 hours. after removal from chamber, socket shall be returned at room condition for a period of 2 hours. the socket shall be capable of. (ANSI/EIA-364-31) (将公母座连接器各自焊接于 PCB 板上后将其对插再暴露在温度为 50℃±2℃，湿度为 90-95%的恒温恒湿槽中放置 96 小时进行测试，完成测试后将插座取回在常温常湿下放置 2 小时后测定。)	1)Appearance: no damage (外观无损害) 2)Contact resistance:40 mΩ Max. (接触阻抗最大 40 毫欧) 3)Insulation resistance: 100 MΩ Min. (绝缘阻抗最小 100 兆欧)
4.4.2	Withstand heat (耐热)	The connector shall be exposed in a hot chamber at temperature of 85±2℃ for a period of 96 hours ,shall then be returned at room conditions for 2 hours. the socket shall be capable of satisfactory performance. (ANSI/EIA-364-17) (将连接器暴露在温度为 85±2℃的恒温恒湿槽中放置 96 小时后，再在室温下自然干燥 2 小时后，绝缘部分应无变形、裂痕、金属部分无变色。)	1)Appearance: no damage (外观无损坏) 2)Contact resistance:40 mΩ Max. (接触阻抗最大 40 毫欧)
4.4.3	Withstand cold (耐寒)	The connector shall be exposed in a cold chamber at temperature of -25℃±2℃ for a period of 96 hours, shall then be returned at room conditions for 2 hours, the socket shall be capable of satisfactory performance. (ANSI/EIA-364-17) (将连接器暴露在温度为-25±2℃的恒温恒湿槽中放置 96 小时后，再在室温下自然干燥 2 小时后，绝缘部分应无变形、裂痕、金属部分无变色。)	1)Appearance: no damage (外观无损坏) 2)Contact resistance: 40 mΩ Max. (接触阻抗最大 40 毫欧)

4.4.4	Therm al Shock (冷热冲击)	10 cycles of: a)-55° C for 30 minutes b)+85° C for 30 minutes performed. (将连接器焊在 PCB 上后将其暴露在下列环境条件中循环 10 次： 置于–55℃±3℃温度中 30 分钟，再转换标准温度条件 10-15 分钟，再转换至+85℃±2℃下 30 分钟，再换至标准温度条件 10-15 分钟；) ANSI/EIA-364-32 Condition I 	1)Appearance: no damage (外观无损坏) 2)Contact resistance: 40 mΩ Max. (接触阻抗最大 40 毫欧) 3)Insulation resistance:100 MΩ Min. (绝缘阻抗最小 100 兆欧)
4.4.5	Salt Spray (盐水喷雾)	Salt density:5% Temperature: 35± 2℃ 盐水浓度：5% 温度：35± 2℃ After keeping in above surrounding for 48 hours EIA-364-26	1)The tin plating area of the tin foot is not required 锡脚镀锡区不作要求 2)Appearance: no damage (外观无损坏)
4.4.6	Resistance to soldering heat （耐焊接热）	FOR REFLOW SOLDERING : Pre-heat : 150 ± 10 ℃, 60 ~120 Seconds Temperature : 260 ± 5 ℃ Immersion duration : 10 sec. and then placed at room temperature for 2 hours, the electrical performance meets the Spec (回流焊: 预热:150±10℃; 60 ~120 秒 温度:260±5℃ 浸渍时间:10 秒。常温放置 2H，电气性能满足 Spec 要求) 	1)Without deformation of case or excessive lossen. (塑胶不得有明显变形或损坏) 2)Contact resistance: 40 mΩ Max. (接触阻抗最大 40 毫欧)

4.4.7	Vibration (振动)	Solder each of plug and receptacle connector to the P.C.Board,then mate them together.place the mated connector firmly on the vibrator and apply the following condition shall be done. Amplitude:1.5 mm P-P or 147m/s2 {15G} Vibration frequency:10Hz-55Hz-10Hz/minute. Direction:along three mutually perpendicular direction. Sweep time:two hours along each direction,a total six hours. Electrical load: DC 1mA current shall be flowed during the test. (ANSI/EIA-364-28) (将公母座各自焊接于 PCB 板上，然后将其对插再固定于振动机上，并施加下列条件) 振幅：1.5mm； 振动频率：一分钟内变换 10Hz-55Hz-10Hz； 方向：沿著三个互相垂直的方向； 时间：每个方向两小时，共 6 小时； 电力负载：施加 DC 1mA 电流测试。	1)No electrical discontinuity greater than 1 microsecond.shall occur. (电气上不能有超过 1 微秒断讯的情形发生。) 2)Lossen,crack and breakage of the plastic part and other detrimental damage shall not be observed. (塑胶件不能有松脱破损或其它不利的损坏。) 3)Contact resistance: 40 mΩ Max. (接触阻抗最大 40 毫欧)

Test Report

No.: SHAEC24013601911 **Date:** Jun 28, 2024

Client Name: KUNSHAN DELIKANG ELECTRONIC TECHNOLOGY CO., LTD

Client Address: NO. 278, HUANGPU JIANGNAN ROAD,DIANSHAN LAKE TOWN,KUNSHAN CITY,JIANGSU PROVINCE

Sample Name: Plastic

Model No.: PBT BK

Supplier: Taisu

The above sample(s) and information were provided by the client.

SGS Job No.: SHP24-019514

Sample Receiving Date: Jun 21, 2024

Testing Period: Jun 21, 2024 ~ Jun 28, 2024

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

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

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

Test Requirement	Conclusion
EU RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU - Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBB), Polybrominated diphenyl ethers (PBDE), Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP) and Diisobutyl phthalate (DIBP)	Pass
Halogen	See Results
Red Phosphorus	See Results

Signed for and on behalf of
SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.

Jenny Lan
Approved Signatory

scan to see the report
C5305AD0

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Test Result(s):

Test Part Description：

SN ID	Sample No.	SGS Sample ID	Description
SN1	A11	SHA24-0136019-0001.C011	Black pellet

Remarks:

(1) 1 mg/kg = 1 ppm = 0.0001%
(2) MDL = Method Detection Limit
(3) ND = Not Detected (< MDL)
(4) "-" = Not Regulated

EU RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU - Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBB), Polybrominated diphenyl ethers (PBDE), Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP) and Diisobutyl phthalate (DIBP)

Test Method: With reference to IEC 62321-4:2013+AMD1:2017, IEC 62321-5:2013, IEC 62321-7-2:2017, IEC 62321-6:2015 and IEC 62321-8:2017, analysis was performed by ICP-OES/AAS, UV-Vis and GC-MS.

Test Item(s)	Limit	Unit(s)	MDL	A11
Lead (Pb)	1000	mg/kg	2	11
Mercury (Hg)	1000	mg/kg	2	ND
Cadmium (Cd)	100	mg/kg	2	ND
Hexavalent Chromium (Cr(VI))	1000	mg/kg	8	ND
Polybromobiphenyl (PBB)	1000	mg/kg	-	ND
Monobrominated biphenyl (MonoBB)	-	mg/kg	5	ND
Dibrominated biphenyl (DiBB)	-	mg/kg	5	ND
Tribrominated biphenyl (TriBB)	-	mg/kg	5	ND
Tetrabrominated biphenyl (TetraBB)	-	mg/kg	5	ND
Pentabrominated biphenyl (PentaBB)	-	mg/kg	5	ND
Hexabrominated biphenyl (HexaBB)	-	mg/kg	5	ND
Heptabrominated biphenyl (HeptaBB)	-	mg/kg	5	ND
Octabrominated biphenyl (OctaBB)	-	mg/kg	5	ND
Nonabrominated biphenyl (NonaBB)	-	mg/kg	5	ND
Decabrominated biphenyl (DecaBB)	-	mg/kg	5	ND
Polybromodiphenyl ether(PBDE)	1000	mg/kg	-	ND
Monobrominated diphenyl ether (MonoBDE)	-	mg/kg	5	ND
Dibrominated diphenyl ether (DiBDE)	-	mg/kg	5	ND
Tribrominated diphenyl ether (TriBDE)	-	mg/kg	5	ND
Tetrabrominated diphenyl ether (TetraBDE)	-	mg/kg	5	ND
Pentabrominated diphenyl ether (PentaBDE)	-	mg/kg	5	ND
Hexabrominated diphenyl ether (HexaBDE)	-	mg/kg	5	ND
Heptabrominated diphenyl ether (HeptaBDE)	-	mg/kg	5	ND

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Test Item(s)	Limit	Unit(s)	MDL	A11
Octabrominated diphenyl ether (OctaBDE)	-	mg/kg	5	ND
Nonabrominated diphenyl ether (NonaBDE)	-	mg/kg	5	ND
Decabrominated diphenyl ether (DecaBDE)	-	mg/kg	5	ND
Bis(2-ethylhexyl) phthalate (DEHP)	1000	mg/kg	50	ND
Butyl benzyl phthalate (BBP)	1000	mg/kg	50	ND
Dibutyl phthalate (DBP)	1000	mg/kg	50	ND
Diisobutyl phthalate (DIBP)	1000	mg/kg	50	ND

Notes:
(1) The maximum permissible limit is quoted from RoHS Directive (EU) 2015/863.
(2) IEC 62321 series is equivalent to EN 62321 series.
(3) The restriction of DEHP, BBP, DBP and DIBP shall apply to medical devices, including in vitro medical devices, and monitoring and control instruments, including industrial monitoring and control instruments, from 22 July 2021.

Halogen

Test Method: With reference to EN 14582:2016, analysis was performed by IC.

Test Item(s)	Unit(s)	MDL	A11
Fluorine(F)	mg/kg	20	ND
Chlorine(Cl)	mg/kg	50	160
Bromine(Br)	mg/kg	50	28192
Iodine(I)	mg/kg	50	ND

Red Phosphorus

Test Method: With reference to SGS In house method, analysis was performed by ICP-OES and Pyrolysis-GC-MS.

Test Item(s)	CAS No.	Unit(s)	MDL	A11
Red Phosphorus	7723-14-0	mg/kg	500	ND

Notes:
(1) The testing result is based on the worst-case scenario, and confirmed by Pyrolysis-GC-MS.

Unless otherwise stated, the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule (*w*=0) stated in ILAC-G8:09/2019.

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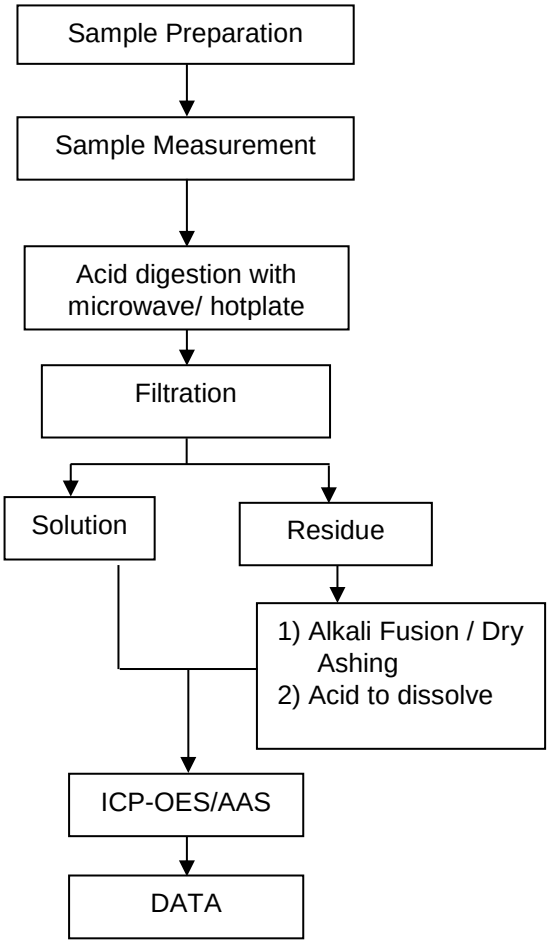
Elements Testing Flow Chart

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



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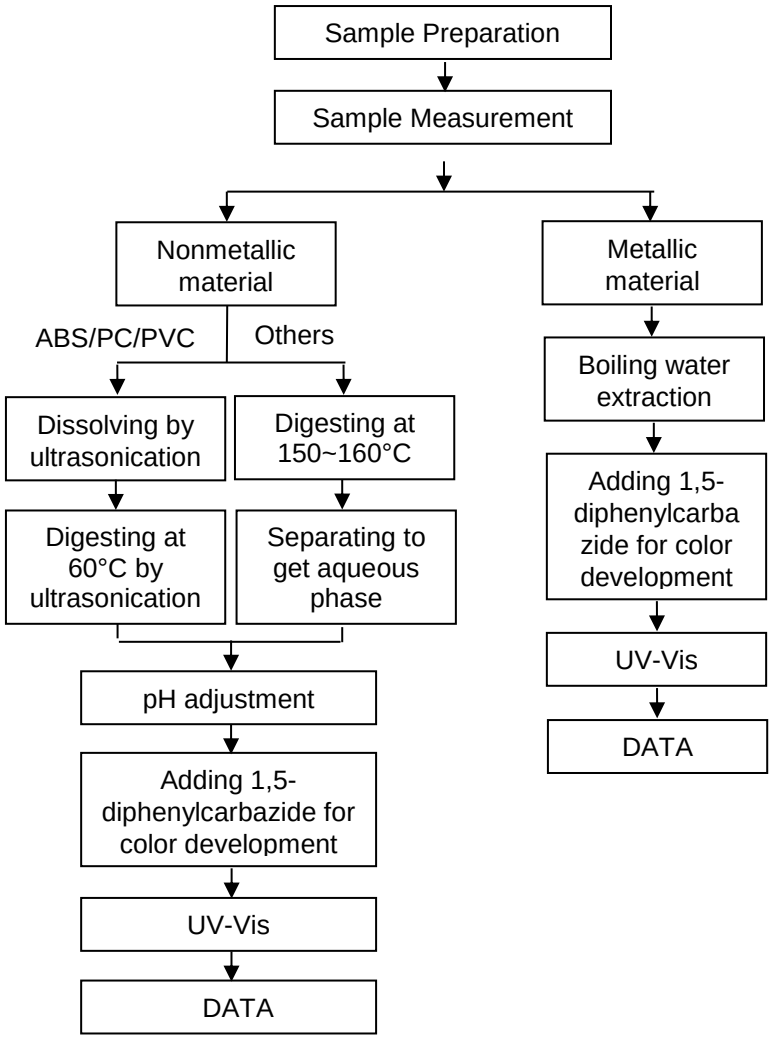
Hexavalent Chromium (Cr(VI)) Testing Flow Chart



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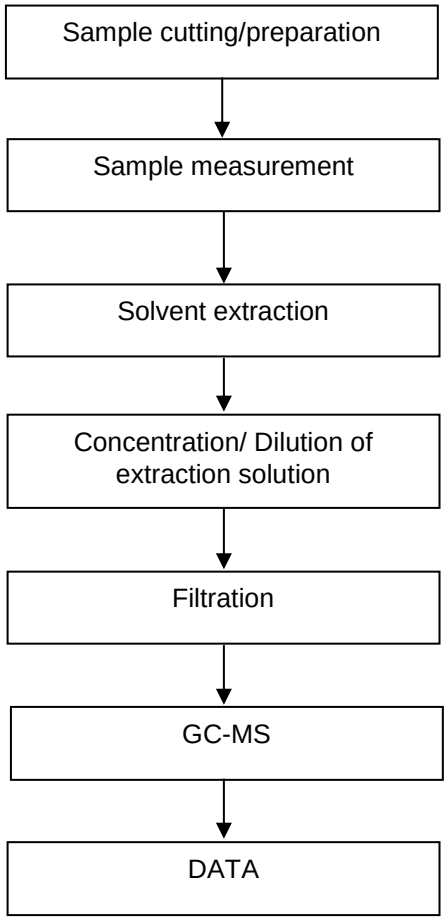
PBB/PBDE Testing Flow Chart



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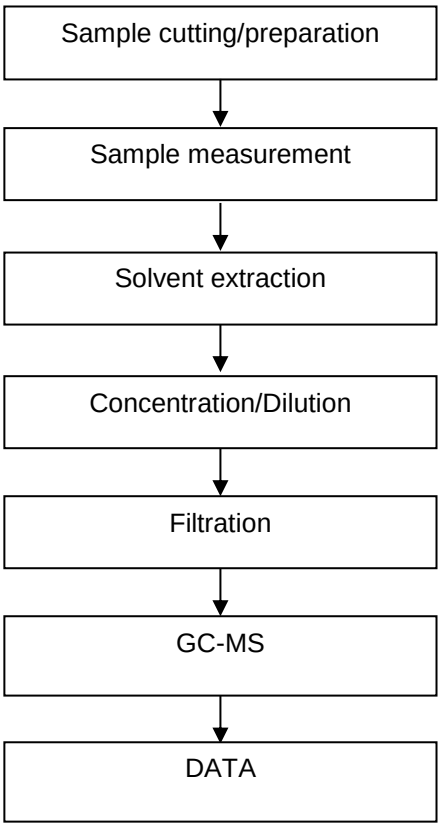
Phthalates Testing Flow Chart



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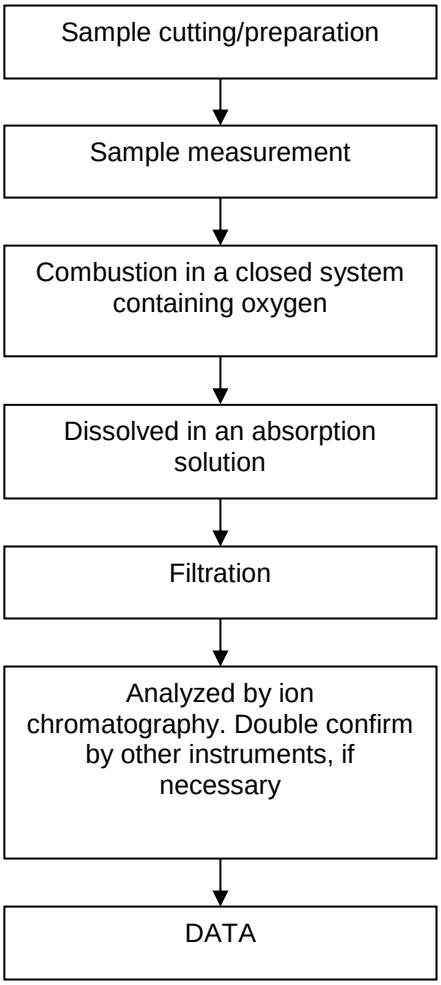
Halogen Testing Flow Chart



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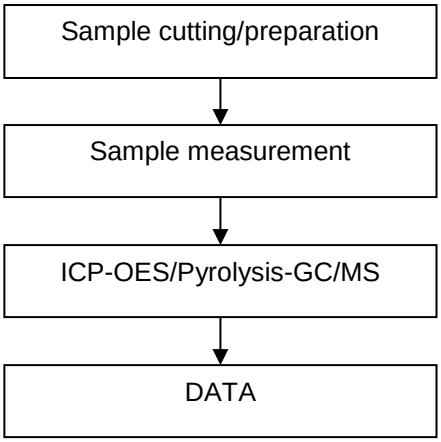
Red Phosphorus Testing Flow Chart



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Test Report

No.: CANEC25002788913 **Date:** Feb 24, 2025

Client Name: GUANGZHOU COPPER MATERIALS CO., LTD.

Client Address: NO.5 LONGDONG ROAD, HIGH-TECH INDUSTRIAL PARK, CONGHUA GUANGDONG ECONOMIC DEVELOPMENT ZONE，GUANGZHOU CITY, GUANGDONG PROVINCE, CHINA

Sample Name: C2680

The above sample(s) and information were provided by the client.

SGS Job No.: GZP25-002672

Sample Receiving Date: Feb 18, 2025

Testing Period: Feb 18, 2025 ~ Feb 24, 2025

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

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

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

Test Requirement	Conclusion
EU RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU - Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBB), Polybrominated diphenyl ethers (PBDE), Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP) and Diisobutyl phthalate (DIBP)	Pass

Signed for and on behalf of
SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch

Dongyu Xie
Approved Signatory

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Test Result(s):

Test Part Description：

SN ID	Sample No.	SGS Sample ID	Description
SN1	A7	CAN25-0027889-0001.C007	Golden metal sheet

Remarks:

(1) 1 mg/kg = 1 ppm = 0.0001%
(2) MDL = Method Detection Limit
(3) ND = Not Detected (< MDL)
(4) "-" = Not Regulated

EU RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU - Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBB), Polybrominated diphenyl ethers (PBDE), Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP) and Diisobutyl phthalate (DIBP)

Test Method: With reference to IEC 62321-4:2013+AMD1:2017, IEC 62321-5:2013, IEC 62321-7-1:2015 and IEC 62321-12:2023, analysis was performed by ICP-OES/AAS, UV-Vis and GC-MS.

Test Item(s)	Limit	Unit(s)	MDL	A7
Lead (Pb)	1000	mg/kg	2	35
Mercury (Hg)	1000	mg/kg	2	ND
Cadmium (Cd)	100	mg/kg	2	ND
Hexavalent Chromium (Cr(VI))▼	-	µg/cm²	0.10	ND
Polybrominated biphenyls (PBB)	1000	mg/kg	-	ND
Monobrominated biphenyl (MonoBB)	-	mg/kg	25	ND
Dibrominated biphenyl (DiBB)	-	mg/kg	25	ND
Tribrominated biphenyl (TriBB)	-	mg/kg	25	ND
Tetrabrominated biphenyl (TetraBB)	-	mg/kg	25	ND
Pentabrominated biphenyl (PentaBB)	-	mg/kg	25	ND
Hexabrominated biphenyl (HexaBB)	-	mg/kg	25	ND
Heptabrominated biphenyl (HeptaBB)	-	mg/kg	25	ND
Octabrominated biphenyl (OctaBB)	-	mg/kg	25	ND
Nonabrominated biphenyl (NonaBB)	-	mg/kg	25	ND
Decabrominated biphenyl (DecaBB)	-	mg/kg	25	ND
Polybrominated diphenyl ethers (PBDE)	1000	mg/kg	-	ND
Monobrominated diphenyl ether (MonoBDE)	-	mg/kg	25	ND
Dibrominated diphenyl ether (DiBDE)	-	mg/kg	25	ND
Tribrominated diphenyl ether (TriBDE)	-	mg/kg	25	ND
Tetrabrominated diphenyl ether (TetraBDE)	-	mg/kg	25	ND
Pentabrominated diphenyl ether (PentaBDE)	-	mg/kg	25	ND
Hexabrominated diphenyl ether (HexaBDE)	-	mg/kg	25	ND
Heptabrominated diphenyl ether (HeptaBDE)	-	mg/kg	25	ND

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Test Item(s)	Limit	Unit(s)	MDL	A7
Octabrominated diphenyl ether (OctaBDE)	-	mg/kg	25	ND
Nonabrominated diphenyl ether (NonaBDE)	-	mg/kg	25	ND
Decabrominated diphenyl ether (DecaBDE)	-	mg/kg	25	ND
Bis(2-ethylhexyl) phthalate (DEHP)	1000	mg/kg	50	ND
Butyl benzyl phthalate (BBP)	1000	mg/kg	50	ND
Dibutyl Phthalate (DBP)	1000	mg/kg	50	ND
Diisobutyl Phthalate (DIBP)	1000	mg/kg	50	ND

Notes:

(1) The maximum permissible limit is quoted from RoHS Directive (EU) 2015/863.

(2) IEC 62321 series is equivalent to EN 62321 series.

(3) ▼ =
a. The sample is positive for Cr(VI) if the Cr(VI)concentration is greater than 0.13 μg/cm^2. The sample coating is considered to contain Cr(VI).
b. The sample is negative for Cr(VI) if Cr(VI) is ND (concentration less than 0.10 μg/cm^2). The coating is considered a non-Cr(VI) based coating.
c. The result between 0.10 μg/cm^2 and 0.13 μg/cm^2 is considered to be inconclusive-unavoidable coating variations may influence the determination.

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

Unless otherwise stated, the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule (*w*=0) stated in ILAC-G8:09/2019.

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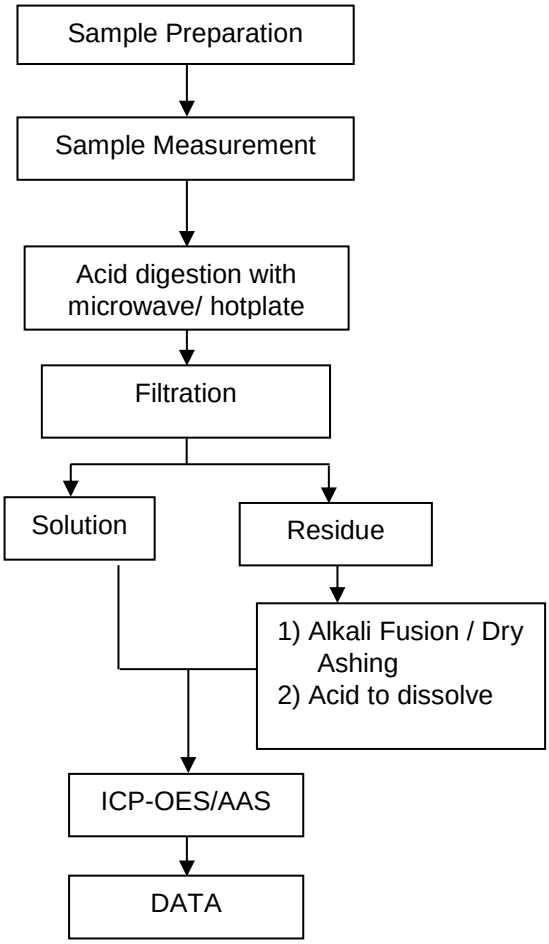
Elements Testing Flow Chart

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



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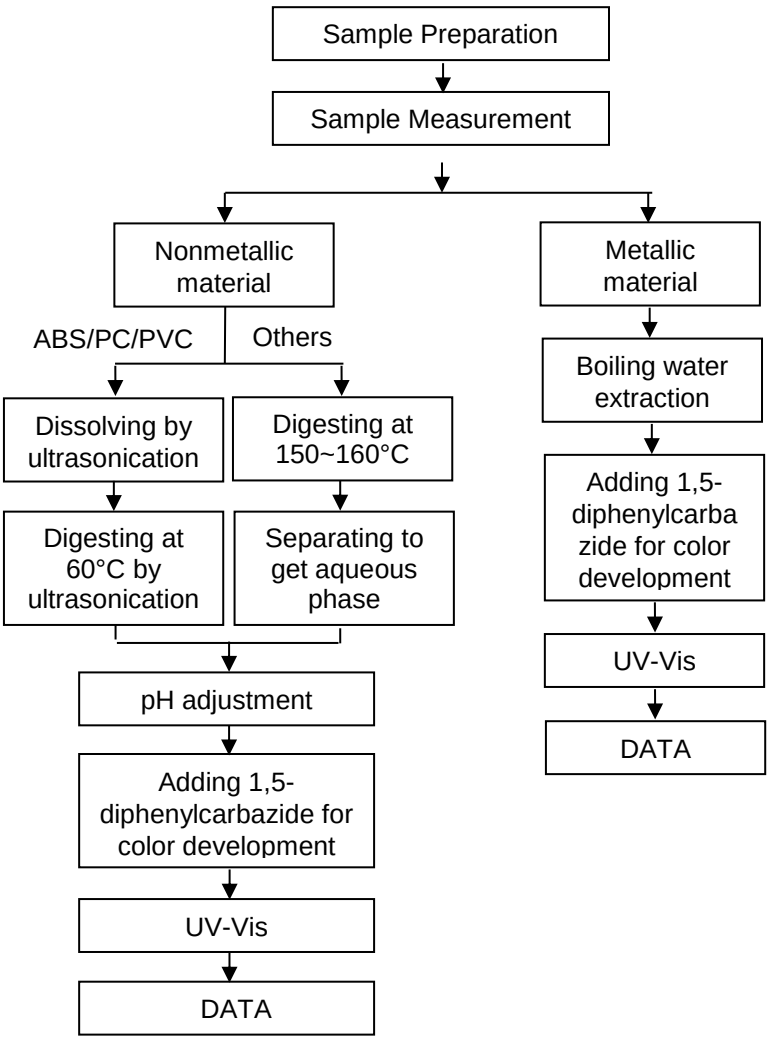
Hexavalent Chromium (Cr(VI)) Testing Flow Chart



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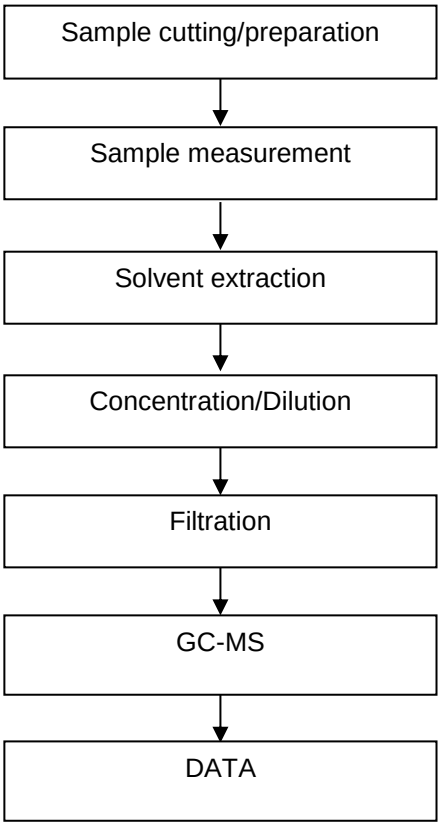
PBB/PBDE/Phthalates Testing Flow Chart



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Sample Photo:



CAN25-0027889-0001.C007

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Test Report

No.: SHAEC24013601926 **Date:** Jun 28, 2024

Client Name: KUNSHAN DELIKANG ELECTRONIC TECHNOLOGY CO., LTD

Client Address: NO. 278, HUANGPU JIANGNAN ROAD,DIANSHAN LAKE TOWN,KUNSHAN CITY,JIANGSU PROVINCE

Sample Name: Plate

Model No.: SPCC

Supplier: HUAWEI

The above sample(s) and information were provided by the client.

SGS Job No.: SHP24-019514

Sample Receiving Date: Jun 21, 2024

Testing Period: Jun 21, 2024 ~ Jun 28, 2024

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

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

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

Test Requirement	Conclusion
EU RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU- Lead, Mercury, Cadmium and Hexavalent chromium	Pass

Signed for and on behalf of
SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.

Jenny Lan
Approved Signatory

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Test Result(s):

Test Part Description：

SN ID	Sample No.	SGS Sample ID	Description
SN1	A26	SHA24-0136019-0001.C026	Silver metal

Remarks:

(1) 1 mg/kg = 1 ppm = 0.0001%
(2) MDL = Method Detection Limit
(3) ND = Not Detected (< MDL)
(4) "-" = Not Regulated

EU RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU- Lead, Mercury, Cadmium and Hexavalent chromium

Test Method: With reference to IEC 62321-4:2013+AMD1:2017, IEC 62321-5:2013 and IEC 62321-7-1:2015, analysis was performed by ICP-OES/AAS and UV-Vis.

Test Item(s)	Limit	Unit(s)	MDL	A26
Lead (Pb)	1000	mg/kg	2	ND
Mercury (Hg)	1000	mg/kg	2	ND
Cadmium (Cd)	100	mg/kg	2	ND
Hexavalent Chromium (Cr(VI))▼	-	μg/cm²	0.10	ND

Notes:

(1) The maximum permissible limit is quoted from RoHS Directive (EU) 2015/863.
(2) IEC 62321 series is equivalent to EN 62321 series.
(3) ▼ =
a. The sample is positive for Cr(VI) if the Cr(VI)concentration is greater than 0.13 μg/cm^2. The sample coating is considered to contain Cr(VI).
b. The sample is negative for Cr(VI) if Cr(VI) is ND (concentration less than 0.10 μg/cm^2). The coating is considered a non-Cr(VI) based coating.
c. The result between 0.10 μg/cm^2 and 0.13 μg/cm^2 is considered to be inconclusive-unavoidable coating variations may influence the determination.

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

Unless otherwise stated, the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule (*w*=0) stated in ILAC-G8:09/2019.

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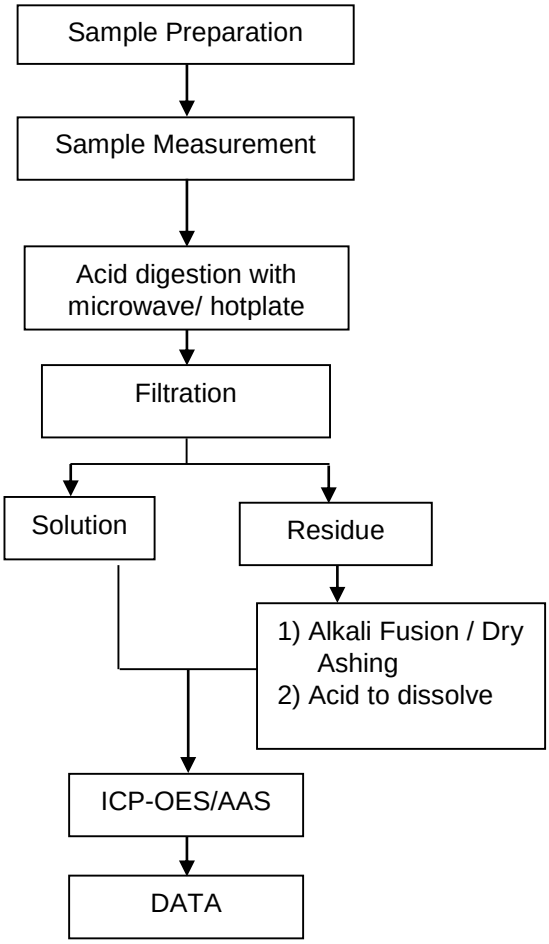
Elements Testing Flow Chart

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



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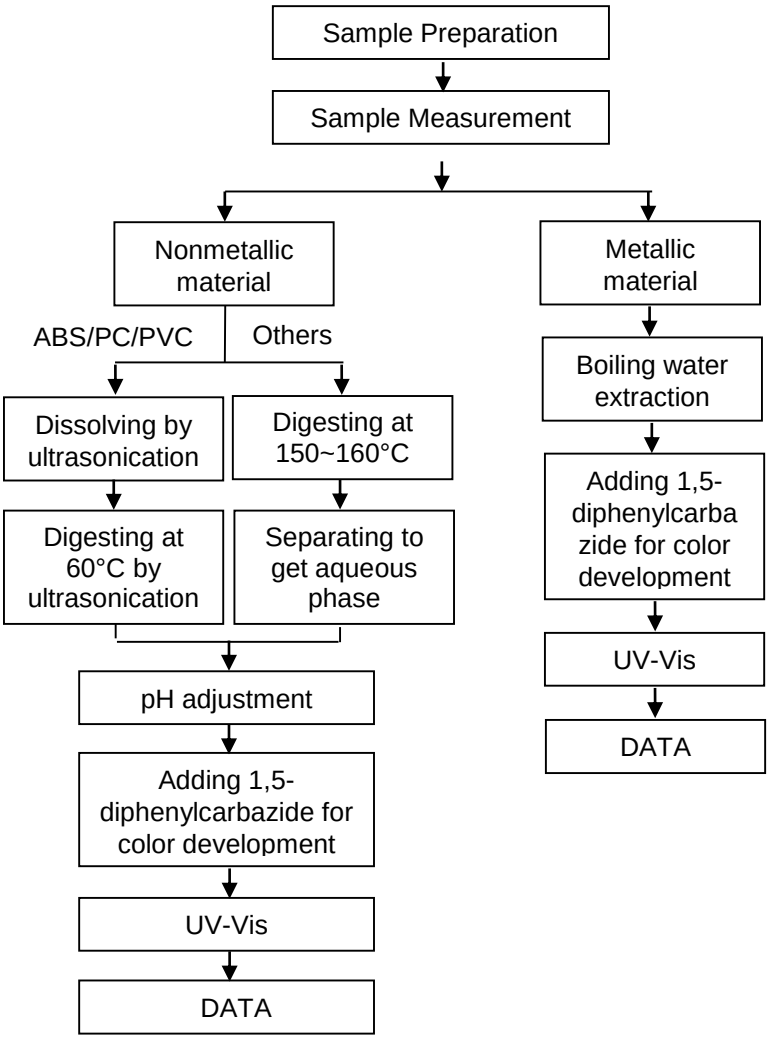
Hexavalent Chromium (Cr(VI)) Testing Flow Chart



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Sample Photo:



SHA24-0136019-0001.C026

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Test Report

No.: SHAEC24013616009 **Date:** Jun 27, 2024

Client Name: Xuancheng Changfeng Electroplating Technology Co., Ltd.

Client Address: No. 16 Jinniu Xi Road, Langxi County Economic Development Zone, Xuancheng, Anhui

Sample Name: Plating

Model No.: Fog tin plating

Supplier: CHANGFENG

The above sample(s) and information were provided by the client.

SGS Job No.: SHP24-019514

Sample Receiving Date: Jun 21, 2024

Testing Period: Jun 21, 2024 ~ Jun 25, 2024

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

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

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

Test Requirement	Conclusion
EU RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU - Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBB), Polybrominated diphenyl ethers (PBDE), Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP) and Diisobutyl phthalate (DIBP)	Pass

Signed for and on behalf of
SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.

Carol Luo

Carol Luo
Approved Signatory

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04E0E014

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Test Result(s):

Test Part Description：

SN ID	Sample No.	SGS Sample ID	Description
SN1	A48	SHA24-0136160-0001.C048	Silver plating

Remarks:

(1) 1 mg/kg = 1 ppm = 0.0001%
(2) MDL = Method Detection Limit
(3) ND = Not Detected (< MDL)
(4) "-" = Not Regulated

EU RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU - Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBB), Polybrominated diphenyl ethers (PBDE), Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP) and Diisobutyl phthalate (DIBP)

Test Method: With reference to IEC 62321-4:2013+AMD1:2017, IEC 62321-5:2013, IEC 62321-7-1:2015， IEC 62321-6:2015 and IEC 62321-8:2017, analysis was performed by ICP-OES, UV-Vis and GC-MS.

Test Item(s)	Limit	Unit(s)	MDL	A48
Cadmium(Cd)	100	mg/kg	10	ND
Lead (Pb)	1000	mg/kg	10	27
Mercury (Hg)	1000	mg/kg	10	ND
Hexavalent Chromium (Cr(VI))▼	-	μg/cm²	0.10	ND
Polybromobiphenyl (PBB)	1000	mg/kg	-	ND
Monobrominated biphenyl (MonoBB)	-	mg/kg	5	ND
Dibrominated biphenyl (DiBB)	-	mg/kg	5	ND
Tribrominated biphenyl (TriBB)	-	mg/kg	5	ND
Tetrabrominated biphenyl (TetraBB)	-	mg/kg	5	ND
Pentabrominated biphenyl (PentaBB)	-	mg/kg	5	ND
Hexabrominated biphenyl (HexaBB)	-	mg/kg	5	ND
Heptabrominated biphenyl (HeptaBB)	-	mg/kg	5	ND
Octabrominated biphenyl (OctaBB)	-	mg/kg	5	ND
Nonabrominated biphenyl (NonaBB)	-	mg/kg	5	ND
Decabrominated biphenyl (DecaBB)	-	mg/kg	5	ND
Polybromodiphenyl ether(PBDE)	1000	mg/kg	-	ND
Monobrominated diphenyl ether (MonoBDE)	-	mg/kg	5	ND
Dibrominated diphenyl ether (DiBDE)	-	mg/kg	5	ND
Tribrominated diphenyl ether (TriBDE)	-	mg/kg	5	ND
Tetrabrominated diphenyl ether (TetraBDE)	-	mg/kg	5	ND
Pentabrominated diphenyl ether (PentaBDE)	-	mg/kg	5	ND
Hexabrominated diphenyl ether (HexaBDE)	-	mg/kg	5	ND
Heptabrominated diphenyl ether (HeptaBDE)	-	mg/kg	5	ND

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Test Item(s)	Limit	Unit(s)	MDL	A48
Octabrominated diphenyl ether (OctaBDE)	-	mg/kg	5	ND
Nonabrominated diphenyl ether (NonaBDE)	-	mg/kg	5	ND
Decabrominated diphenyl ether (DecaBDE)	-	mg/kg	5	ND
Dibutyl phthalate (DBP)	1000	mg/kg	50	ND
Butyl benzyl phthalate (BBP)	1000	mg/kg	50	ND
Bis(2-ethylhexyl) phthalate (DEHP)	1000	mg/kg	50	ND
Diisobutyl phthalate (DIBP)	1000	mg/kg	50	ND

Notes:

(1) The maximum permissible limit is quoted from RoHS Directive (EU) 2015/863.

(2) IEC 62321 series is equivalent to EN 62321 series.

(3) ▼ = a. The sample is positive for Cr(VI) if the Cr(VI)concentration is greater than 0.13 μg/cm2. The sample coating is considered to contain Cr(VI)

b. The sample is negative for Cr(VI) if Cr(VI) is ND (concentration less than 0.10 μg/cm2). The coating is considered a non-Cr(VI) based coating

c. The result between 0.10 μg/cm2 and 0.13 μg/cm2 is considered to be inconclusive - unavoidable coating variations may influence the determination

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

(4) The results of PBBs, PBDEs, DBP, BBP, DEHP & DIBP are based on the complete samples submitted by the client, including plating and substrate.

Results & photo(s) of this report refer to test report SHAEC24013616004

Unless otherwise stated, the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule (*w*=0) stated in ILAC-G8:09/2019.

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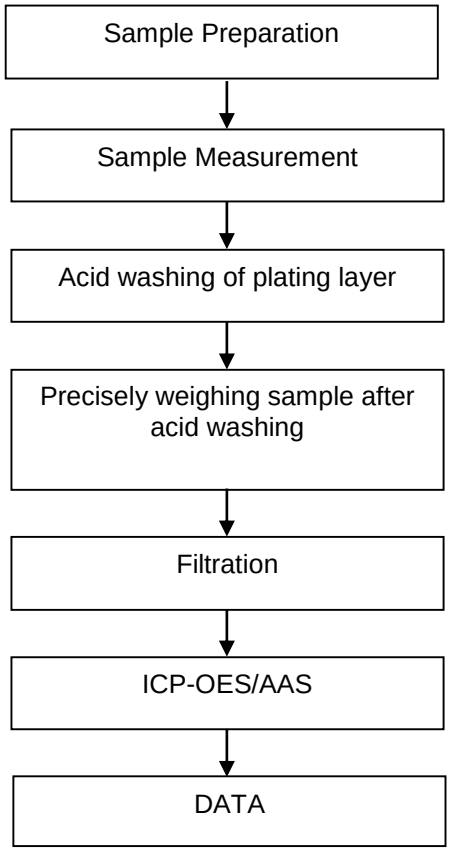
Plating Element Testing Flow Chart



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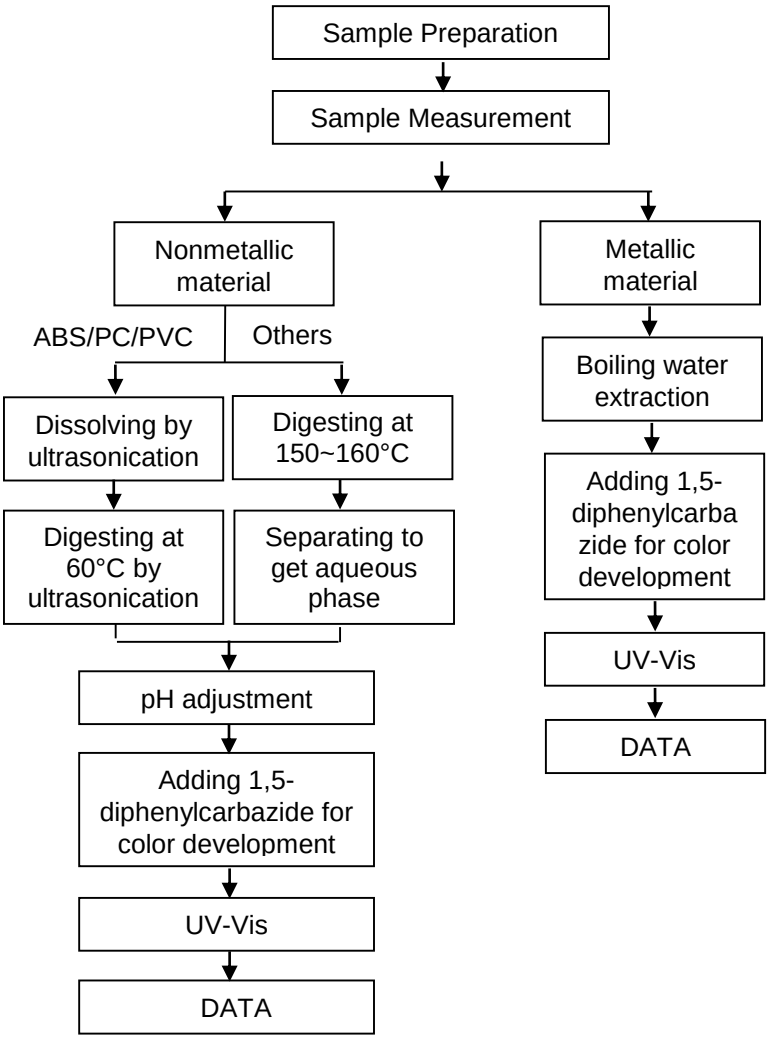
Hexavalent Chromium (Cr(VI)) Testing Flow Chart



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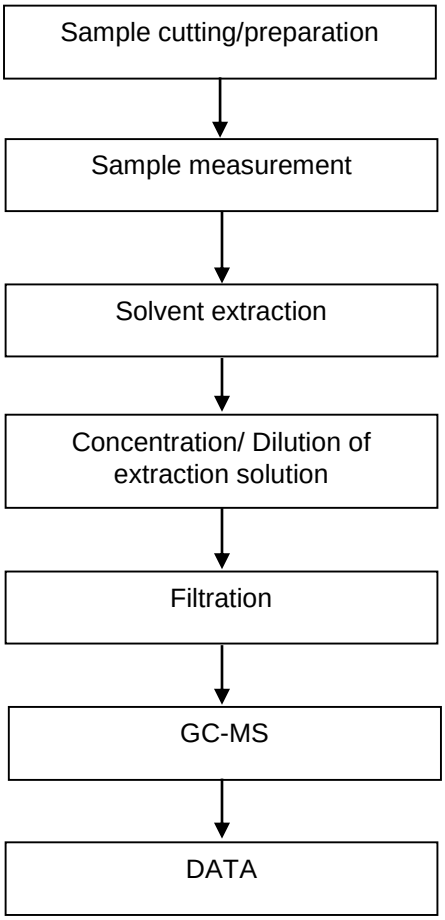
PBB/PBDE Testing Flow Chart



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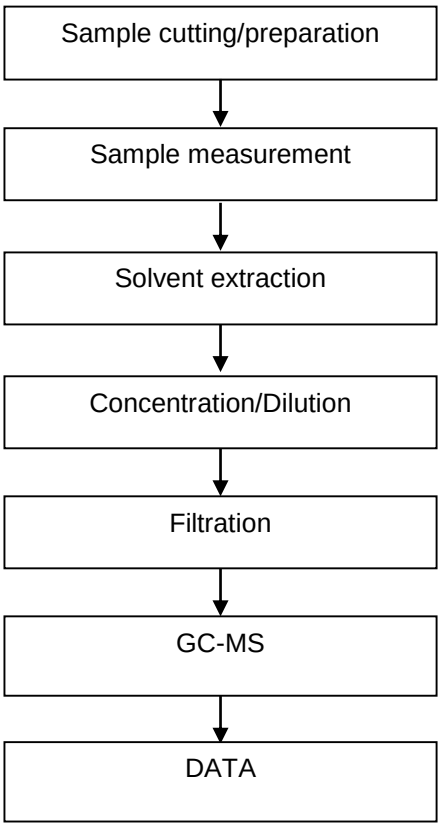
Phthalates Testing Flow Chart



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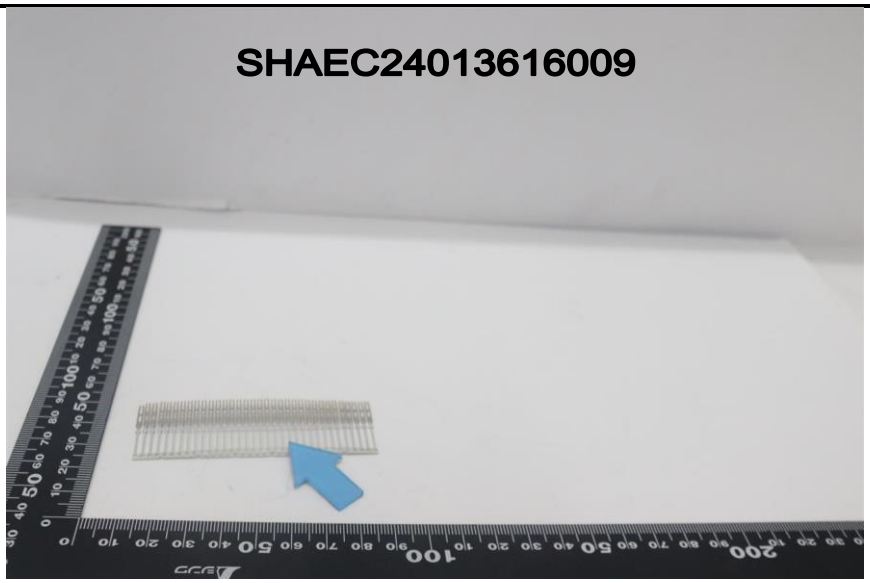

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Test Report

No.: SHAEC24013616006 **Date:** Jun 27, 2024

Client Name: Xuancheng Changfeng Electroplating Technology Co., Ltd.

Client Address: No. 16 Jinniu Xi Road, Langxi County Economic Development Zone, Xuancheng, Anhui

Sample Name: Plating

Model No.: Gold plating

Supplier: CHANGFENG

The above sample(s) and information were provided by the client.

SGS Job No.: SHP24-019514

Sample Receiving Date: Jun 21, 2024

Testing Period: Jun 21, 2024 ~ Jun 25, 2024

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

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

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

Test Requirement	Conclusion
EU RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU - Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBB), Polybrominated diphenyl ethers (PBDE), Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP) and Diisobutyl phthalate (DIBP)	Pass

Signed for and on behalf of
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Carol Luo
Approved Signatory

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Test Result(s):

Test Part Description：

SN ID	Sample No.	SGS Sample ID	Description
SN1	A45	SHA24-0136160-0001.C045	Golden plating

Remarks:

(1) 1 mg/kg = 1 ppm = 0.0001%
(2) MDL = Method Detection Limit
(3) ND = Not Detected (< MDL)
(4) "-" = Not Regulated

EU RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU - Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBB), Polybrominated diphenyl ethers (PBDE), Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP) and Diisobutyl phthalate (DIBP)

Test Method: With reference to IEC 62321-4:2013+AMD1:2017, IEC 62321-5:2013, IEC 62321-7-1:2015， IEC 62321-6:2015 and IEC 62321-8:2017, analysis was performed by ICP-OES, UV-Vis and GC-MS.

Test Item(s)	Limit	Unit(s)	MDL	A45
Cadmium(Cd)	100	mg/kg	10	ND
Lead (Pb)	1000	mg/kg	10	12
Mercury (Hg)	1000	mg/kg	10	ND
Hexavalent Chromium (Cr(VI))▼	-	μg/cm²	0.10	ND
Polybromobiphenyl (PBB)	1000	mg/kg	-	ND
Monobrominated biphenyl (MonoBB)	-	mg/kg	5	ND
Dibrominated biphenyl (DiBB)	-	mg/kg	5	ND
Tribrominated biphenyl (TriBB)	-	mg/kg	5	ND
Tetrabrominated biphenyl (TetraBB)	-	mg/kg	5	ND
Pentabrominated biphenyl (PentaBB)	-	mg/kg	5	ND
Hexabrominated biphenyl (HexaBB)	-	mg/kg	5	ND
Heptabrominated biphenyl (HeptaBB)	-	mg/kg	5	ND
Octabrominated biphenyl (OctaBB)	-	mg/kg	5	ND
Nonabrominated biphenyl (NonaBB)	-	mg/kg	5	ND
Decabrominated biphenyl (DecaBB)	-	mg/kg	5	ND
Polybromodiphenyl ether(PBDE)	1000	mg/kg	-	ND
Monobrominated diphenyl ether (MonoBDE)	-	mg/kg	5	ND
Dibrominated diphenyl ether (DiBDE)	-	mg/kg	5	ND
Tribrominated diphenyl ether (TriBDE)	-	mg/kg	5	ND
Tetrabrominated diphenyl ether (TetraBDE)	-	mg/kg	5	ND
Pentabrominated diphenyl ether (PentaBDE)	-	mg/kg	5	ND
Hexabrominated diphenyl ether (HexaBDE)	-	mg/kg	5	ND
Heptabrominated diphenyl ether (HeptaBDE)	-	mg/kg	5	ND

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Test Item(s)	Limit	Unit(s)	MDL	A45
Octabrominated diphenyl ether (OctaBDE)	-	mg/kg	5	ND
Nonabrominated diphenyl ether (NonaBDE)	-	mg/kg	5	ND
Decabrominated diphenyl ether (DecaBDE)	-	mg/kg	5	ND
Dibutyl phthalate (DBP)	1000	mg/kg	50	ND
Butyl benzyl phthalate (BBP)	1000	mg/kg	50	ND
Bis(2-ethylhexyl) phthalate (DEHP)	1000	mg/kg	50	ND
Diisobutyl phthalate (DIBP)	1000	mg/kg	50	ND

Notes:

(1) The maximum permissible limit is quoted from RoHS Directive (EU) 2015/863.

(2) IEC 62321 series is equivalent to EN 62321 series.

(3) ▼ = a. The sample is positive for Cr(VI) if the Cr(VI)concentration is greater than 0.13 μg/cm2. The sample coating is considered to contain Cr(VI)

b. The sample is negative for Cr(VI) if Cr(VI) is ND (concentration less than 0.10 μg/cm2). The coating is considered a non-Cr(VI) based coating

c. The result between 0.10 μg/cm2 and 0.13 μg/cm2 is considered to be inconclusive - unavoidable coating variations may influence the determination

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

(4) The results of PBBs, PBDEs, DBP, BBP, DEHP & DIBP are based on the complete samples submitted by the client, including plating and substrate.

Results & photo(s) of this report refer to test report SHAEC24013616001

Unless otherwise stated, the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule (*w*=0) stated in ILAC-G8:09/2019.

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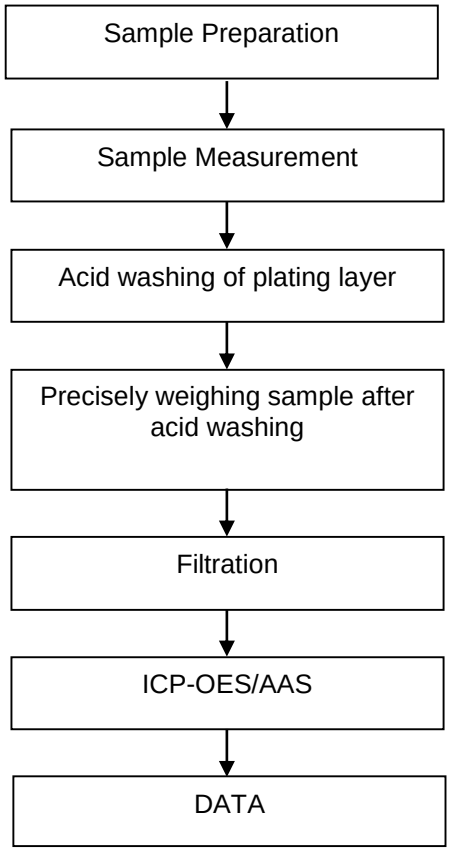
Plating Element Testing Flow Chart



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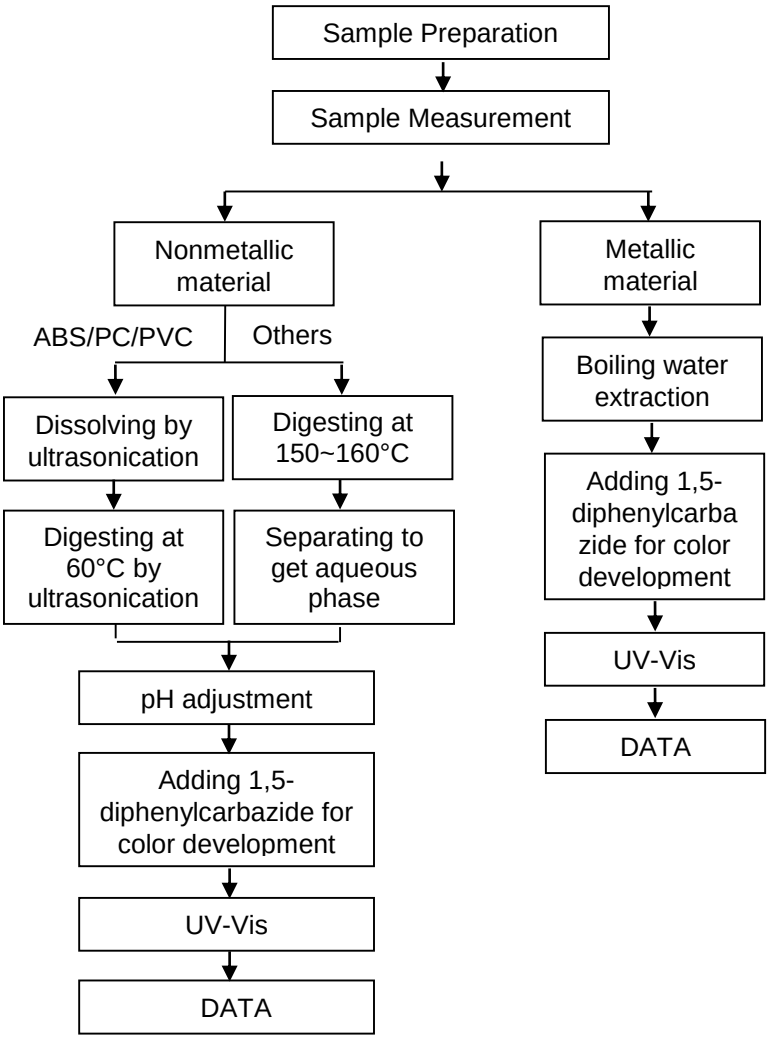
Hexavalent Chromium (Cr(VI)) Testing Flow Chart



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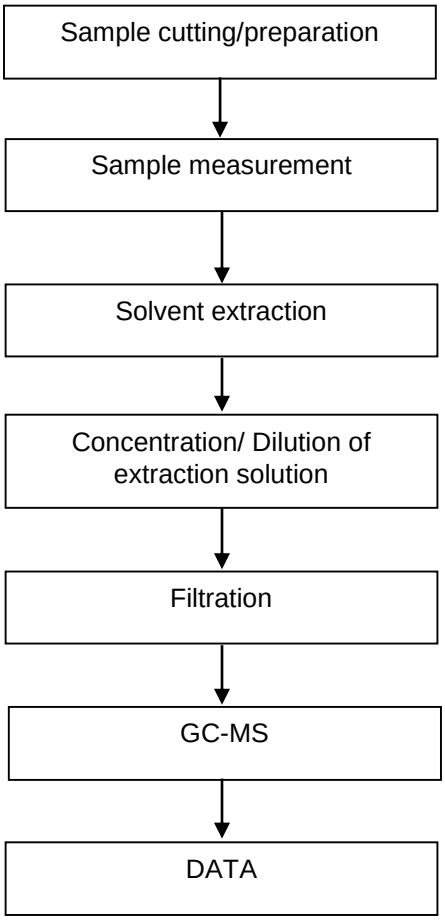
PBB/PBDE Testing Flow Chart



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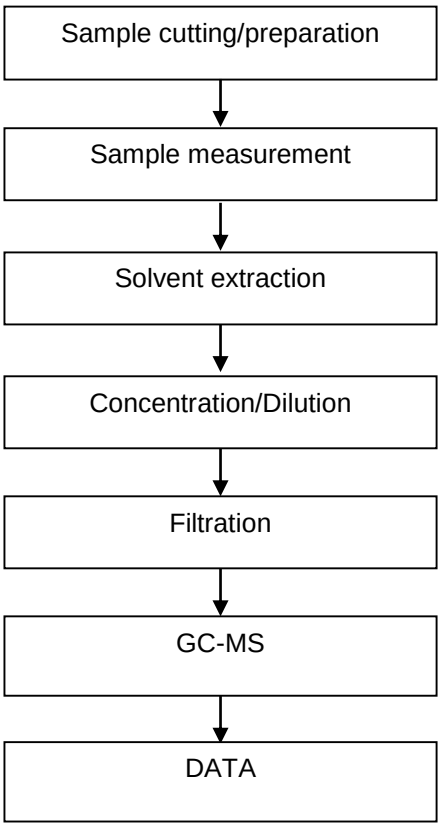
Phthalates Testing Flow Chart



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Sample Photo:



SHA24-0136160-0001.C045

SGS authenticate the photo on original report only

*** End of Report ***

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Test Report

No.: SHAEC24013616007 **Date:** Jun 27, 2024

Client Name: Xuancheng Changfeng Electroplating Technology Co., Ltd.

Client Address: No. 16 Jinniu Xi Road, Langxi County Economic Development Zone, Xuancheng, Anhui

Sample Name: Plating

Model No.: Nickel plating

Supplier: CHANGFENG

The above sample(s) and information were provided by the client.

SGS Job No.: SHP24-019514

Sample Receiving Date: Jun 21, 2024

Testing Period: Jun 21, 2024 ~ Jun 25, 2024

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

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

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

Test Requirement	Conclusion
EU RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU - Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBB), Polybrominated diphenyl ethers (PBDE), Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP) and Diisobutyl phthalate (DIBP)	Pass

Signed for and on behalf of
SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.

Carol Luo

Carol Luo
Approved Signatory

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64C96704

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Test Result(s):

Test Part Description：

SN ID	Sample No.	SGS Sample ID	Description
SN1	A46	SHA24-0136160-0001.C046	Silver plating

Remarks:

(1) 1 mg/kg = 1 ppm = 0.0001%
(2) MDL = Method Detection Limit
(3) ND = Not Detected (< MDL)
(4) "-" = Not Regulated

EU RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU - Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBB), Polybrominated diphenyl ethers (PBDE), Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP) and Diisobutyl phthalate (DIBP)

Test Method: With reference to IEC 62321-4:2013+AMD1:2017, IEC 62321-5:2013, IEC 62321-7-1:2015， IEC 62321-6:2015 and IEC 62321-8:2017, analysis was performed by ICP-OES, UV-Vis and GC-MS.

Test Item(s)	Limit	Unit(s)	MDL	A46
Cadmium(Cd)	100	mg/kg	10	ND
Lead (Pb)	1000	mg/kg	10	ND
Mercury (Hg)	1000	mg/kg	10	ND
Hexavalent Chromium (Cr(VI))▼	-	µg/cm²	0.10	ND
Polybromobiphenyl (PBB)	1000	mg/kg	-	ND
Monobrominated biphenyl (MonoBB)	-	mg/kg	5	ND
Dibrominated biphenyl (DiBB)	-	mg/kg	5	ND
Tribrominated biphenyl (TriBB)	-	mg/kg	5	ND
Tetrabrominated biphenyl (TetraBB)	-	mg/kg	5	ND
Pentabrominated biphenyl (PentaBB)	-	mg/kg	5	ND
Hexabrominated biphenyl (HexaBB)	-	mg/kg	5	ND
Heptabrominated biphenyl (HeptaBB)	-	mg/kg	5	ND
Octabrominated biphenyl (OctaBB)	-	mg/kg	5	ND
Nonabrominated biphenyl (NonaBB)	-	mg/kg	5	ND
Decabrominated biphenyl (DecaBB)	-	mg/kg	5	ND
Polybromodiphenyl ether(PBDE)	1000	mg/kg	-	ND
Monobrominated diphenyl ether (MonoBDE)	-	mg/kg	5	ND
Dibrominated diphenyl ether (DiBDE)	-	mg/kg	5	ND
Tribrominated diphenyl ether (TriBDE)	-	mg/kg	5	ND
Tetrabrominated diphenyl ether (TetraBDE)	-	mg/kg	5	ND
Pentabrominated diphenyl ether (PentaBDE)	-	mg/kg	5	ND
Hexabrominated diphenyl ether (HexaBDE)	-	mg/kg	5	ND
Heptabrominated diphenyl ether (HeptaBDE)	-	mg/kg	5	ND

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Test Item(s)	Limit	Unit(s)	MDL	A46
Octabrominated diphenyl ether (OctaBDE)	-	mg/kg	5	ND
Nonabrominated diphenyl ether (NonaBDE)	-	mg/kg	5	ND
Decabrominated diphenyl ether (DecaBDE)	-	mg/kg	5	ND
Dibutyl phthalate (DBP)	1000	mg/kg	50	ND
Butyl benzyl phthalate (BBP)	1000	mg/kg	50	ND
Bis(2-ethylhexyl) phthalate (DEHP)	1000	mg/kg	50	ND
Diisobutyl phthalate (DIBP)	1000	mg/kg	50	ND

Notes:

(1) The maximum permissible limit is quoted from RoHS Directive (EU) 2015/863.

(2) IEC 62321 series is equivalent to EN 62321 series.

(3) ▼ = a. The sample is positive for Cr(VI) if the Cr(VI)concentration is greater than 0.13 μg/cm2. The sample coating is considered to contain Cr(VI)

b. The sample is negative for Cr(VI) if Cr(VI) is ND (concentration less than 0.10 μg/cm2). The coating is considered a non-Cr(VI) based coating

c. The result between 0.10 μg/cm2 and 0.13 μg/cm2 is considered to be inconclusive - unavoidable coating variations may influence the determination

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

(4) The results of PBBs, PBDEs, DBP, BBP, DEHP & DIBP are based on the complete samples submitted by the client, including plating and substrate.

Results & photo(s) of this report refer to test report SHAEC24013616002

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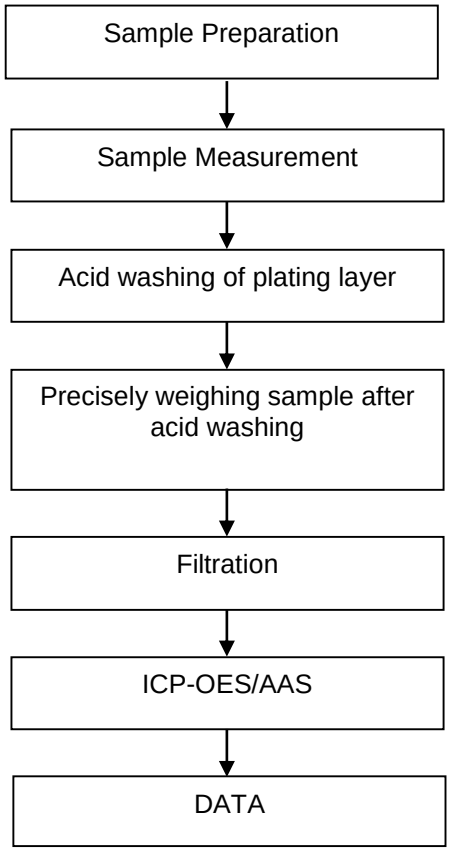
Plating Element Testing Flow Chart



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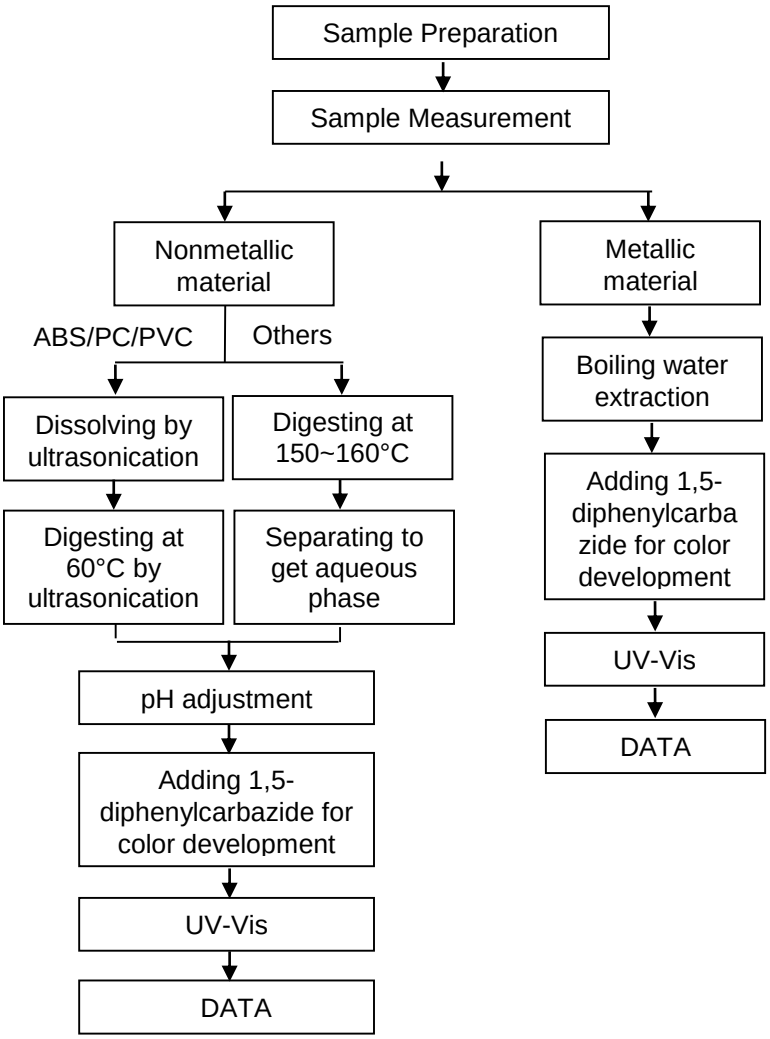
Hexavalent Chromium (Cr(VI)) Testing Flow Chart



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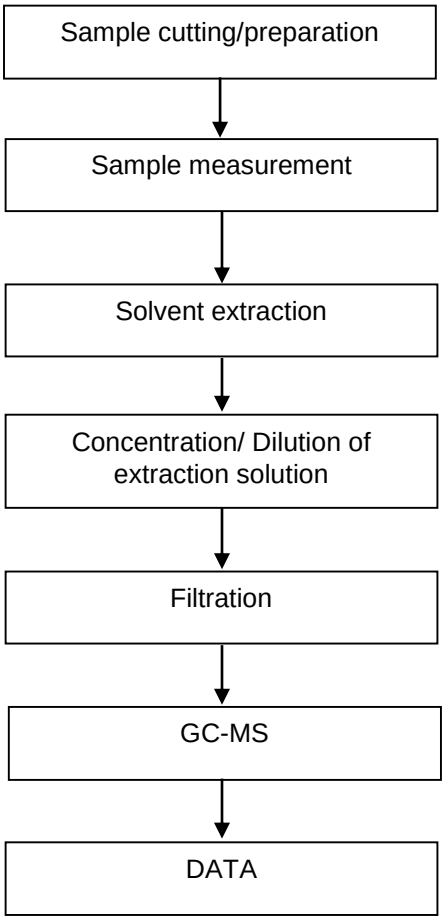
PBB/PBDE Testing Flow Chart



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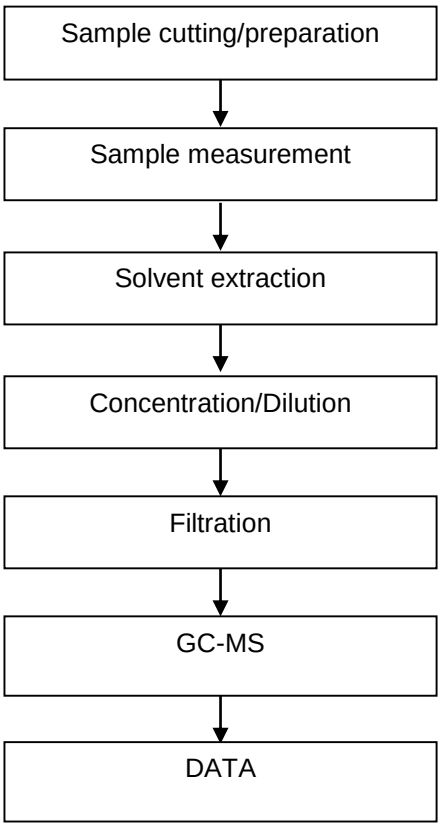
Phthalates Testing Flow Chart



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向贵司销售的零部件及组件的使用材料、包装材料等中未使用 **DLK**《环境管理物质技术标准》（**508000-D-002**）要求的管理物质（禁止使用对象）及其用途，特此证明。

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以下清单所列均质原材料为本产品中所用到的所有原材料

ITEM	Raw Material	Raw Material Supplier	Cd	Pb	Cr^{6+}	Hg	PBB/PBDE	Cl	Br	PAHs	第三方测试报告号码
			含量(ppm)	含量(ppm)	含量(ppm)	含量(ppm)	含量(ppm)	含量(ppm)	含量(ppm)	含量(ppm)	
Housing	PBT	TS	N.D	11	N.D	N.D	N.D	N.D	N.D		SHAEC24013601911
Contact	C2680	GT	N.D	35	N.D	N.D	N.D				CANEC25002788913
Shell/Middle Shell	SPCC	HW	N.D	N.D	N.D	N.D					SHAEC24013601926
Plating Sn	Matte Sn	CF	N.D	27	N.D	N.D	N.D				SHAEC24013616009
Plating Au	Au	CF	N.D	12	N.D	N.D	N.D				SHAEC24013616006
Plating Ni	Ni	CF	N.D	N.D	N.D	N.D	N.D				SHAEC24013616007

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备注：请填写该类零部件用到的所有部件、原材料、辅助材料的详细信息。

必须详细、正确的填写部件、原材料、辅助材料的供应商名称、材料型号

主管/职位：

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