

Product Number: DR0727-9007BSM
Product Name: Antenna



Specification For Approval

Date: 2025 / 01 / 07

File No.: 2501070003

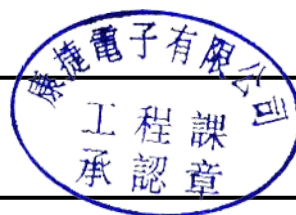
Version: 1.1

Customer : 研華股份有限公司

Customer P/N : 1751000662-01

INVAX P/N : DR0727-9007BSM

Description : LTE Antenna



Cortec Checked By:



Customer Approved By:



INVAX System Technology Corp.

4F. No. 815.Chung Hsiao East Rd.,Sec.5
Taipei, TAIWAN

TEL:886-2-2788-5218 FAX:886-2-2783-1658

<http://www.invaxsystem.com>



Cortec Technology Inc.

Xian-Xi Industrial, Sha-Tou Administration Zone,
Chang-An Town, Dong-Guan City, Guangdong
Province, China

TEL:86-769-85388261 FAX:86-769-85317869

<http://www.cortec.com.cn>

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Product Number: DR0727-9007BSM

Product Name: Antenna



1. Revision History

Revision	Date	Change Notification	Description
1.0	2024.05.15	初版	
1.1	2024.07.23	增加频率点数据	增加 3400~3800MHz 测试数据
	2025.01.07	增加频率点数据	增加频率点 699/ 704 /716 / 788/ 798MHz

Product Number: DR0727-9007BSM

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2. Specification

Sample Photo	
A photograph of the antenna assembly. It consists of a black, dome-shaped plastic housing with a small circular port on the side. A black cable is connected to the housing, coiled neatly, and ends in a gold-colored SMA male connector.	
A. Electrical Characteristics	
Frequency	698 ~ 960 MHz / 1710 ~ 2700 MHz 3300 ~ 3800 MHz
V.S.W.R.	<= 4.0 @ 698 ~ 960 MHz <= 3.0 @ 1710 ~ 2700 MHz <= 2.5 @ 3300 ~ 3800 MHz
Peak Gain	-2.94 dBi @ 698 ~ 960 MHz / Ant1 -1.19 dBi @ 1710 ~ 2700 MHz / Ant1 3.64 dBi @ 3300 ~ 3800 MHz/ Ant1 -1.51 dBi @ 698 ~ 960 MHz / Ant2 -0.23 dBi @ 1710 ~ 2700 MHz / Ant2 2.73 dBi @ 3300 ~ 3800 MHz/ Ant2
Radiation Patter	Omni-Directional
Impedance	50 Ohm
Antenna Type	PiFa
B. Material & Mechanical Characteristics	
Material of Radiator	PCB
Material of Plastic	PA66+15%GF
Antenna Housing Color	Black
Cable Type	LMR100
Connector Type	SMA Male
Pull Test of Connector	>= 3 Kg
Min. cable bending radius static	28 mm
C. Environmental	
Operation Temperature	- 40 °C ~ + 65 °C
Storage Temperature	- 40 °C ~ + 80 °C

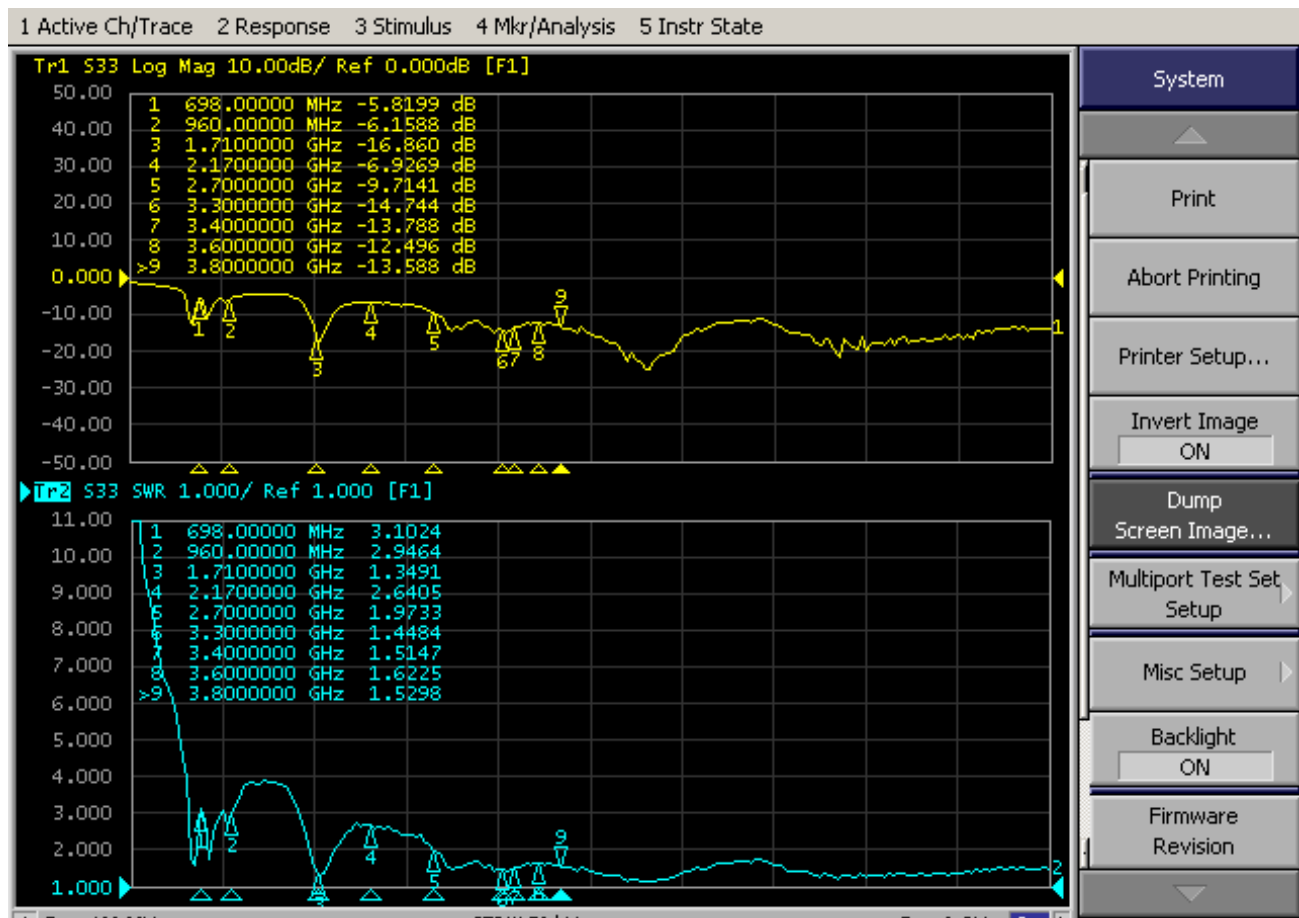
Product Number: DR0727-9007BSM

Product Name: Antenna

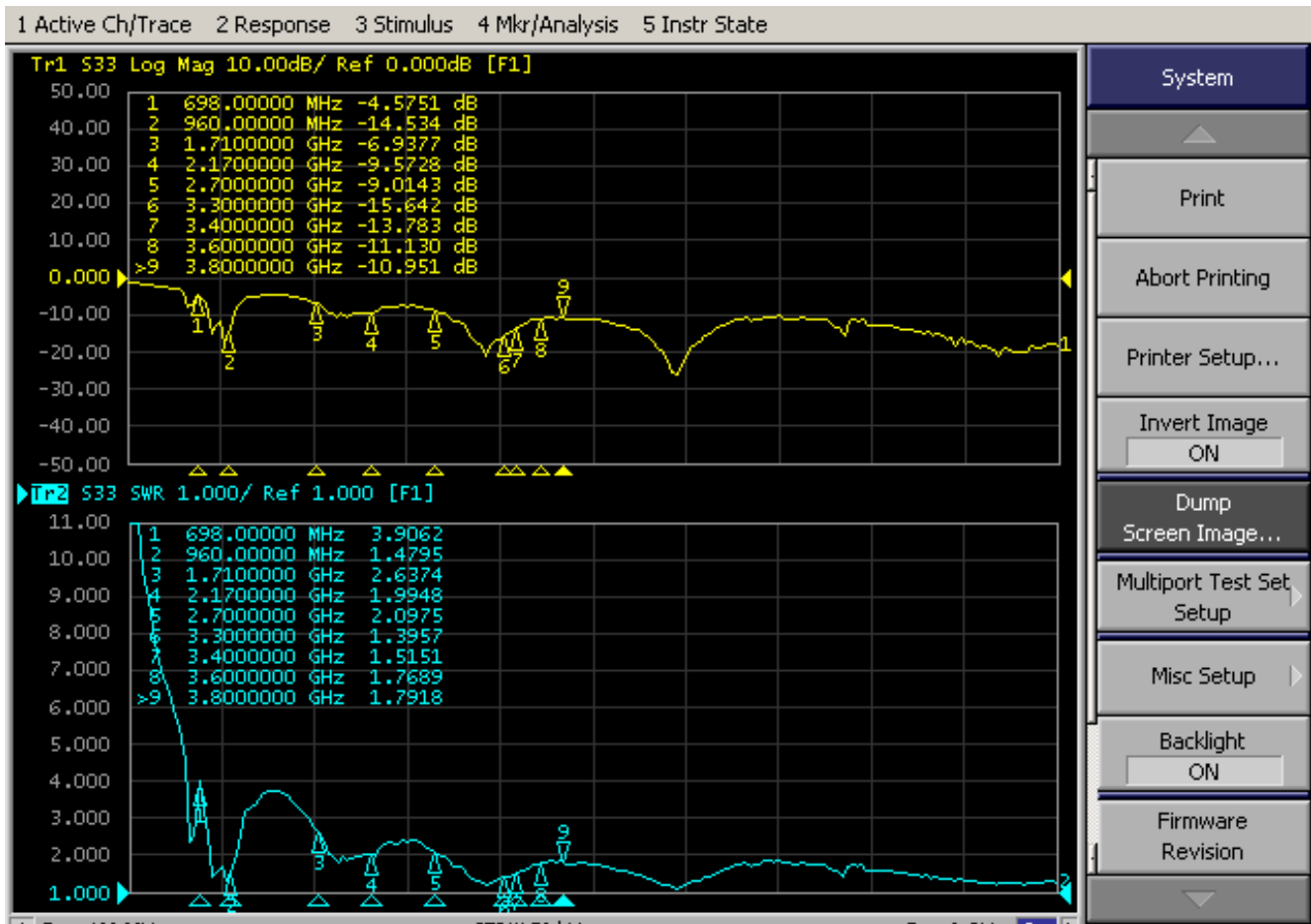


3. Antenna - S Parameter Test Data

Ant1



Ant2



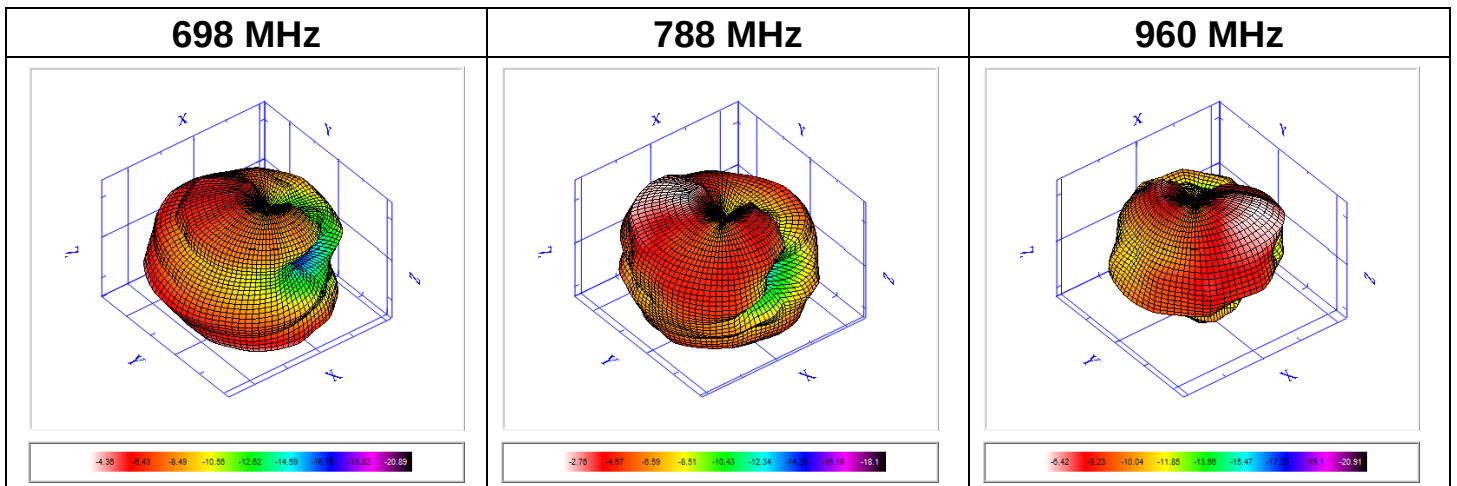
Product Number: DR0727-9007BSM

Product Name: Antenna

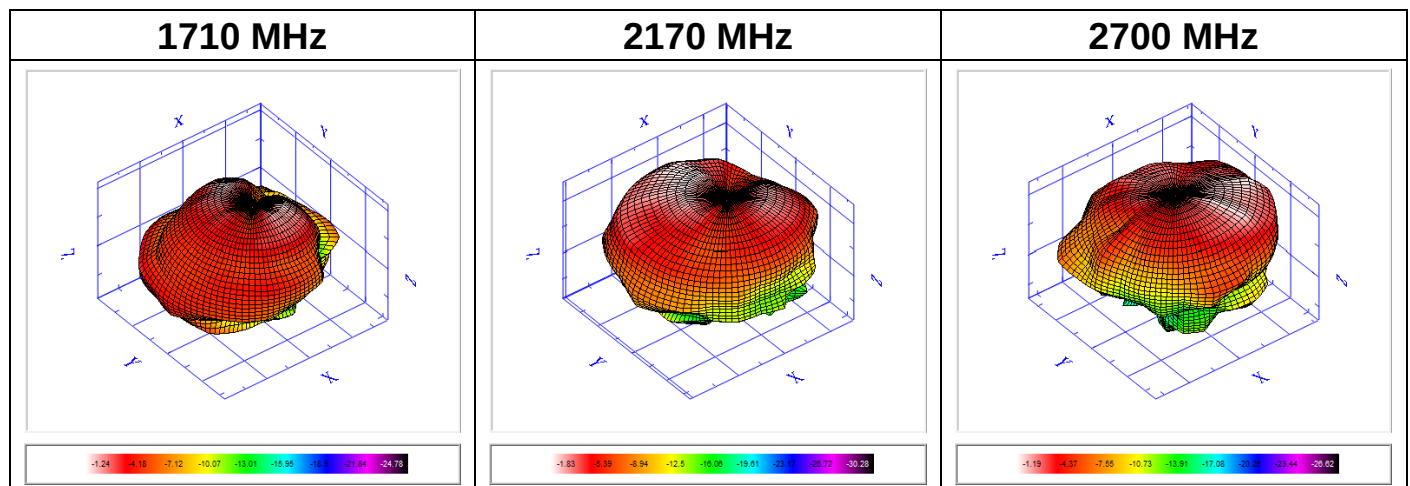


4. Antenna - Radiation Pattern Test Data

Ant1



Frequency	698	699	704	716	724	769	777	787	788	798	799	824	854	880	899	934	960
E-Total Peak Gain (dBi)	-4.36	-4.67	-6.5	-3.18	-3.36	-3.97	-5.26	-2.78	-2.76	-3.48	-3.6	-2.94	-7.61	-10.41	-4.21	-4.52	-6.42
Efficiency (%)	13.8	13.3	9.39	19.13	21.77	16.08	8.93	23.12	23.31	21.45	21.03	20.26	7.16	3.66	10.5	10.83	7.36
Average Gain (dB)	-8.6	-8.76	-10.27	-7.18	-6.62	-7.94	-10.49	-6.36	-6.33	-6.69	-6.77	-6.93	-11.45	-14.36	-9.79	-9.66	-11.33



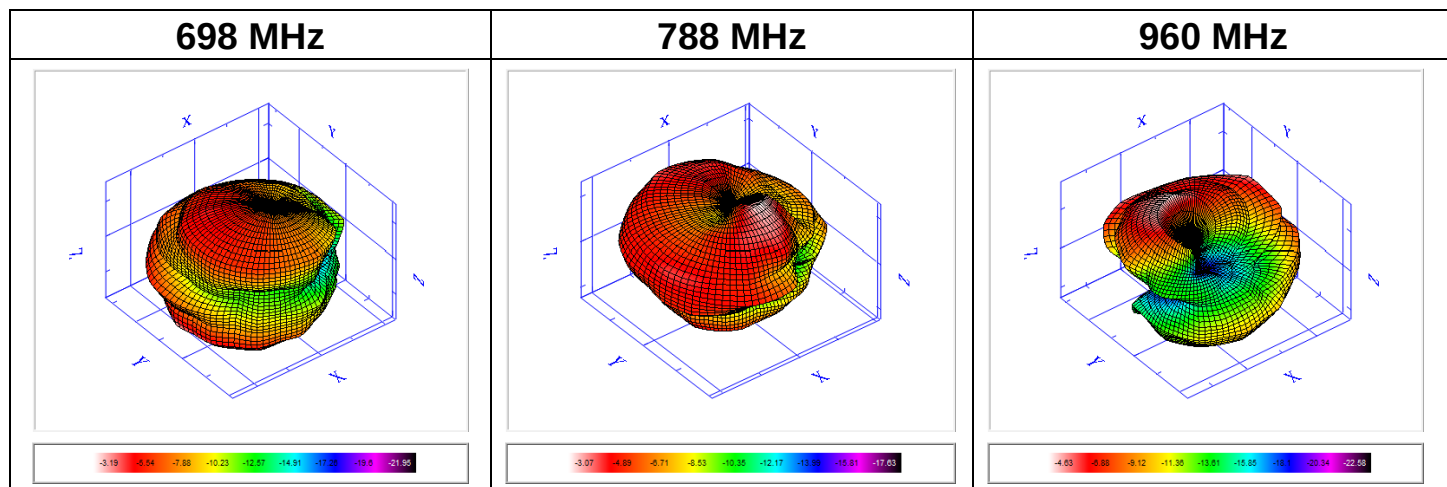
Frequency	1710	1880	1920	1990	2000	2100	2170	2200	2300	2400	2500	2600	2690	2700
E-Total Peak Gain (dBi)	-1.24	-3.5	-3.96	-2.01	-5.92	-1.54	-1.83	-3.35	-2.65	-2.93	-2.8	-2.36	-1.21	-1.19
Efficiency (%)	19.84	10.99	9.83	9.45	6.5	10.19	9.46	6.59	6.87	6.81	6.61	8.02	12.19	12.25
Average Gain (dB)	-7.02	-9.59	-10.08	-10.25	-11.87	-9.92	-10.24	-11.81	-11.63	-11.67	-11.79	-10.96	-9.14	-9.12

Product Number: DR0727-9007BSM

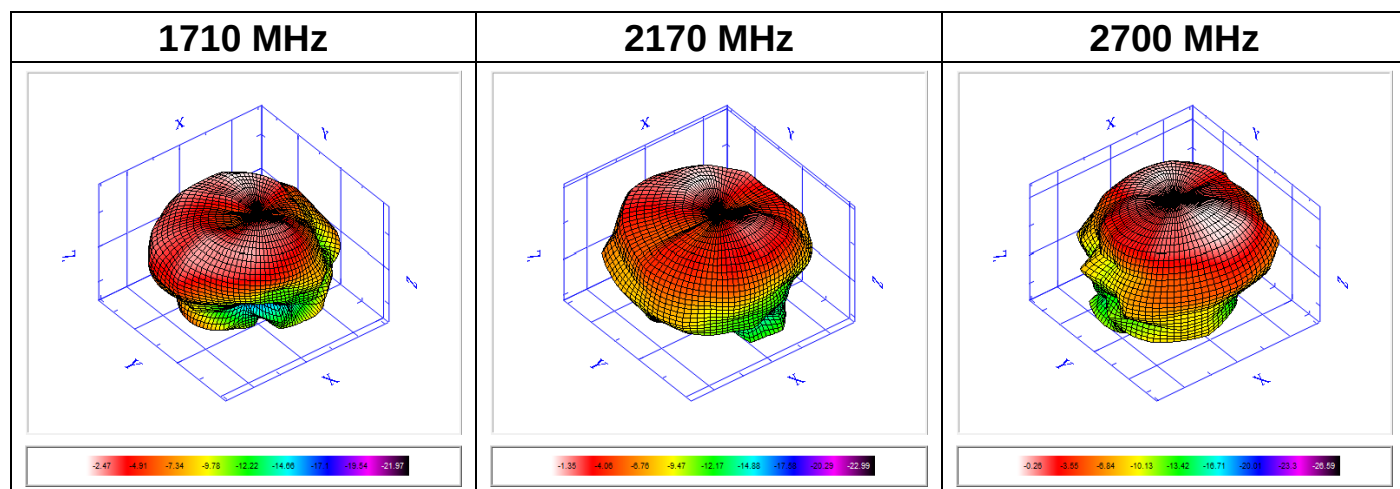
Product Name: Antenna



Ant2



Frequency	698	699	704	716	724	769	777	787	788	798	799	824	854	880	899	934	960
E-Total Peak Gain (dBi)	-3.19	-3.27	-4.96	-1.07	-1.51	-3.12	-5.2	-2.78	-3.07	-4.5	-4.16	-5.02	-7.61	-10.11	-5.68	-5.89	-4.63
Efficiency (%)	14.11	13.98	9.67	21.33	18.94	18.11	9.93	16.06	16.72	15.85	16.08	12.15	6.15	4.29	9.86	8.01	8.17
Average Gain (dB)	-8.51	-8.55	-10.15	-6.71	-7.23	-7.42	-10.03	-7.94	-7.77	-8	-7.94	-9.15	-12.11	-13.67	-10.06	-10.96	-10.88



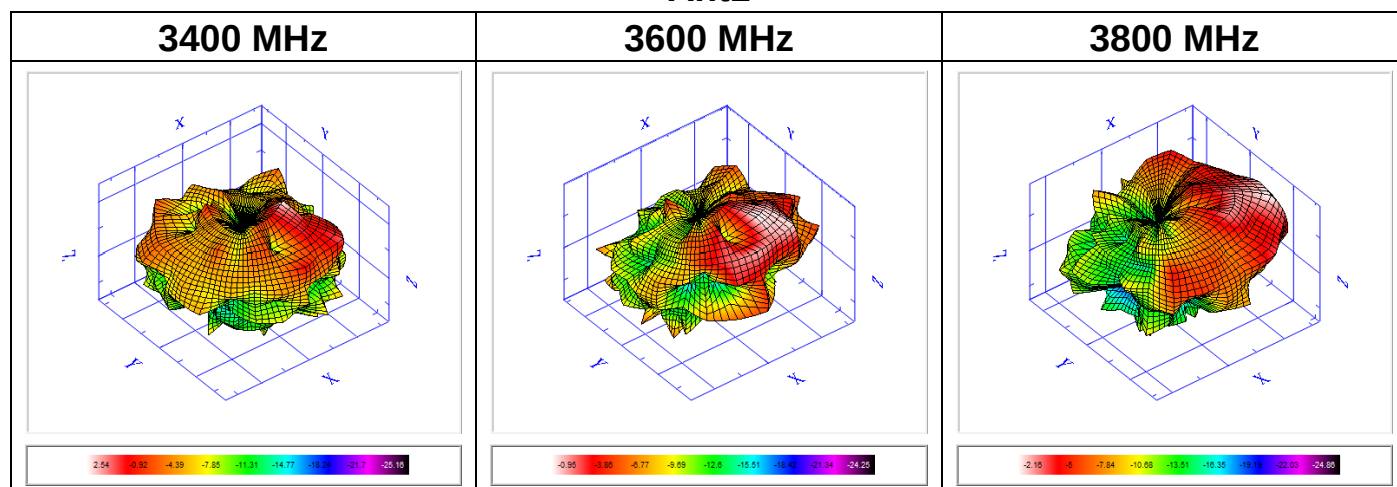
Frequency	1710	1880	1920	1990	2000	2100	2170	2200	2300	2400	2500	2600	2690	2700
E-Total Peak Gain (dBi)	-2.47	-2.91	-2.91	-2.17	-5.1	-1.19	-1.35	-2.9	-1.95	-1.59	-2.07	-0.79	-0.23	-0.26
Efficiency (%)	20.87	11.67	8.24	11.81	7.19	10.89	14.16	7.65	12.63	11.52	9.24	11.1	14.09	14.34
Average Gain (dB)	-6.81	-9.33	-10.84	-9.28	-11.44	-9.63	-8.49	-11.17	-8.99	-9.38	-10.34	-9.55	-8.51	-8.44

Product Number: DR0727-9007BSM

Product Name: Antenna

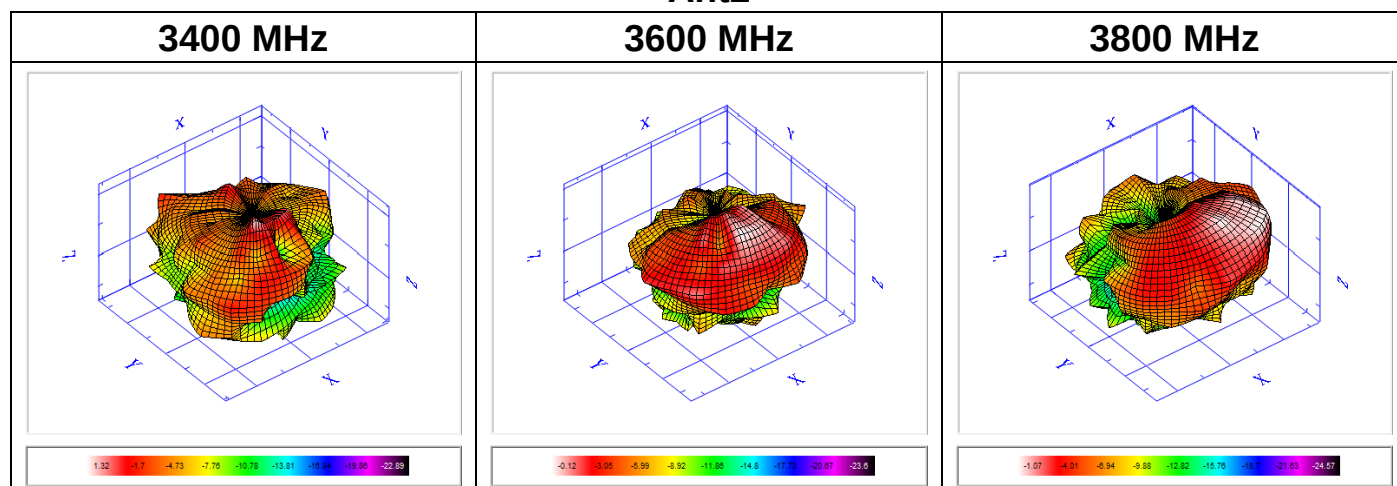


Ant1



Frequency	3300	3350	3400	3450	3500	3525	3600	3650	3700	3750	3800
E-Total Peak Gain (dBi)	2.98	2.15	2.54	3.64	-0.66	0.7	-0.95	-3.23	-1.61	-1	-2.16
Efficiency (%)	17.4	16.68	14.62	18.13	12.14	16.01	11.26	8.63	7.63	9.29	7.97
Average Gain (dB)	-7.59	-7.78	-8.35	-7.42	-9.16	-7.96	-9.48	-10.64	-11.18	-10.32	-10.98

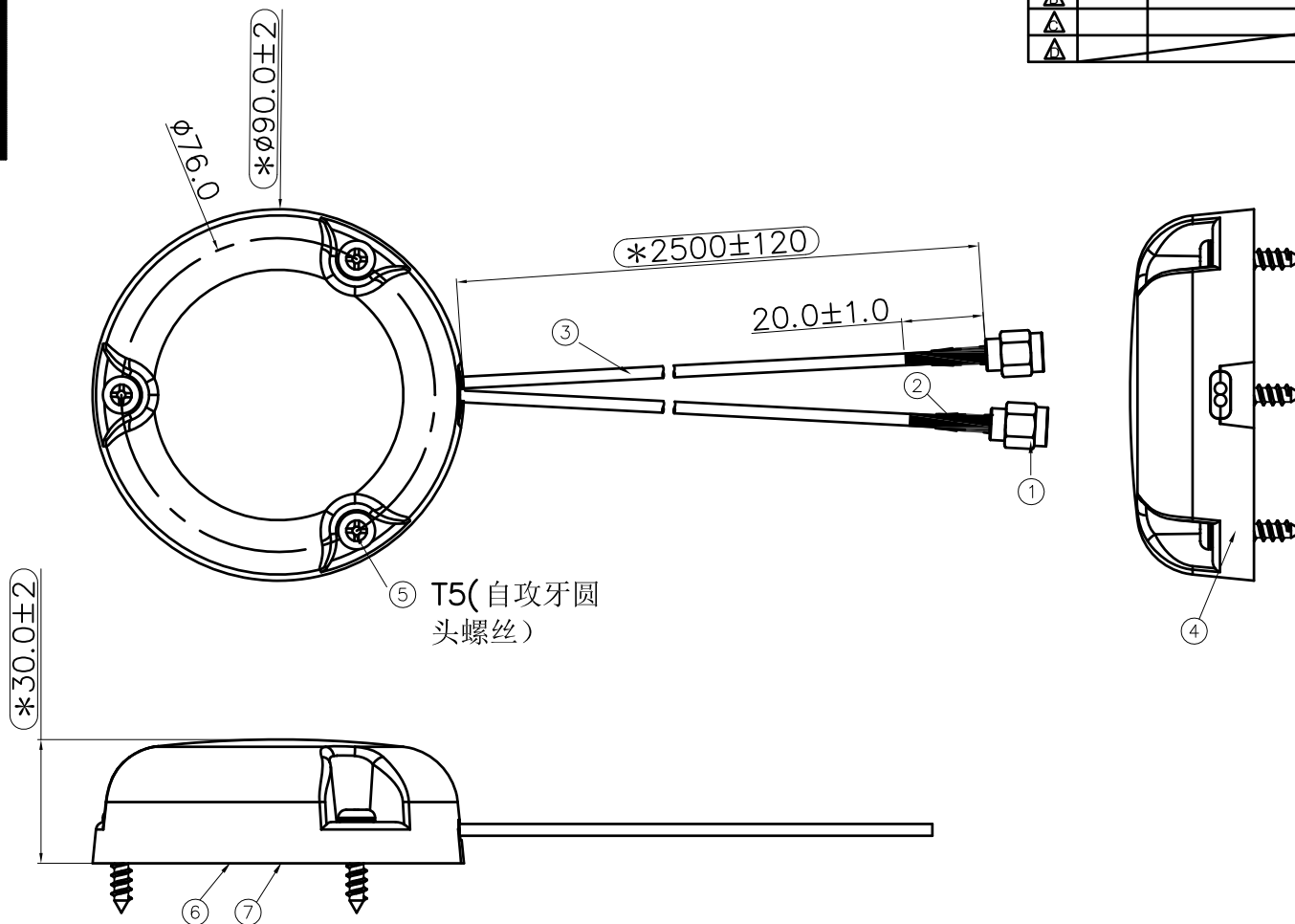
Ant2



Frequency	3300	3350	3400	3450	3500	3525	3600	3650	3700	3750	3800
E-Total Peak Gain (dBi)	2.73	1.99	1.32	2.4	0.23	0.41	-0.12	-2.41	-2.74	-0.59	-1.07
Efficiency (%)	22.74	20.61	16.62	21.93	21	17.99	15.86	10.92	8.69	12.09	12.2
Average Gain (dB)	-6.43	-6.86	-7.79	-6.59	-6.78	-7.45	-8	-9.62	-10.61	-9.18	-9.14

RoHS

Compatible



Note:

1. Mark * is important dimension
2. Tolerance: Unmarked tolerance refer to the standard tolerance please.

7	GS-DR90-01ME	3M Adhesive	G8050F	Red	1
6	COV-DR90-04PAB	下盖	PA66+15%GF	Black	1
5	SCREW-T525-IRON	Screw	IRON		3
4	COV-DR90-03PAB	上盖	PA66+15%GF	Black	1
3	R-CB-LMR100B-01	线材	LMR100	Black	1
2	R-HSTUBE-004T	Hot Shrink Tube	EVA	Ø4.0 Black	2
1	SMA010-CGT574-A	SMA 公头公针	Cu	Au Plating	1
No.	Part Number	Name	Material	Finish	Q'ty

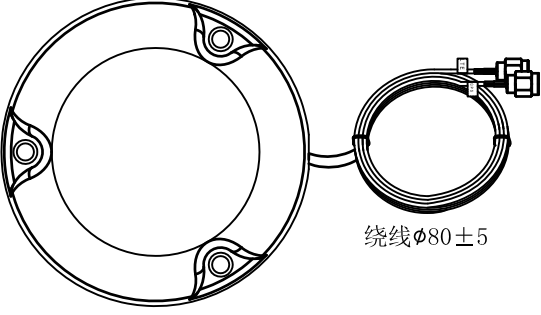
Invax System Group.			Cortec Technology Inc.		
Cortec			Http://www.invaxsystem.com		Tel :886-2-27885218
			E-mail:info@invax.com.tw		Fax:886-2-27831658
TITLE: LTE Antenna					
PART NO.: DR0727-9007BSM			CUSTOMER P/N: /		
APP BY	CHK BY	RF BY	DES BY		Tolerance
SF	YS		LISA	UNITS: mm	X.X ±0.5
2024.05.15	2024.05.15		2024.05.15	SCALE: 1/1	X.XX ±0.2
				REVISION: A	X° ±1

Date: 2024.05.15

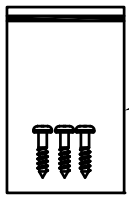
Page: 1 of 1

Part Number : DR0727-9007BSM	Revision : A
Name: LTE+GPS Antenna	Customer :

1. 1PCS裝一PE 袋
3PCS螺丝用1小
夹链袋分开包装.

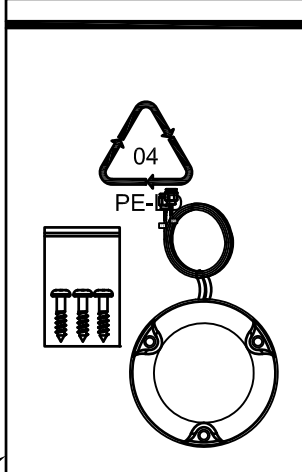


绕线 $\phi 80 \pm 5$



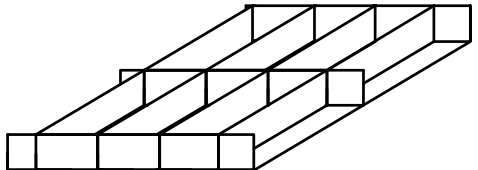
R-NIP-BAG-4060

2. 将用夹链袋包装好的螺丝与产
品一起放入PE袋

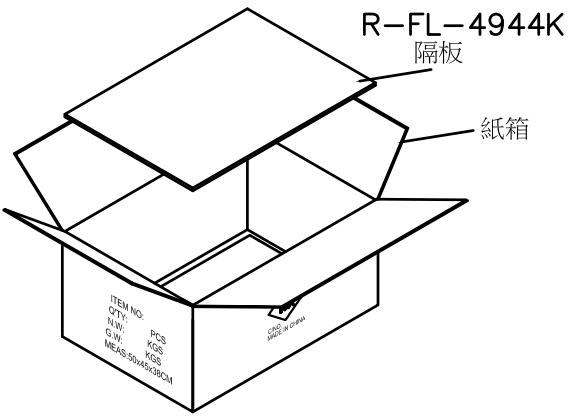


R-PE-BAG-150330-KHS

3. 每一格子放入1PCS产品線材和產
品平鋪，不可疊在一起. 10PCS放一
层.



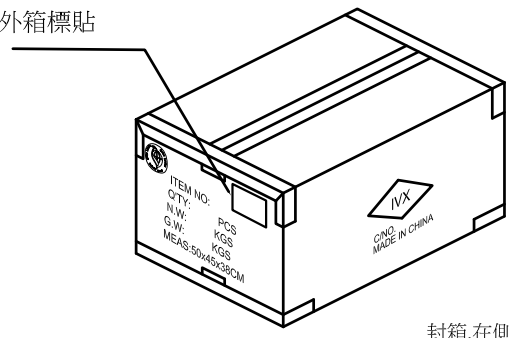
R-FL-4944K
隔板



紙箱

3. 50PCS/每箱

外箱標貼

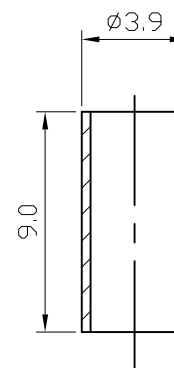
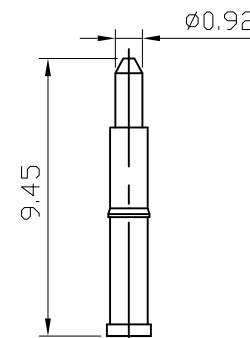
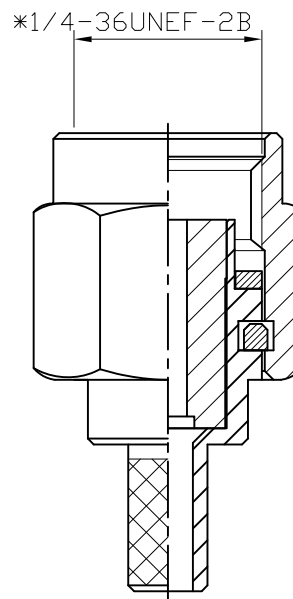
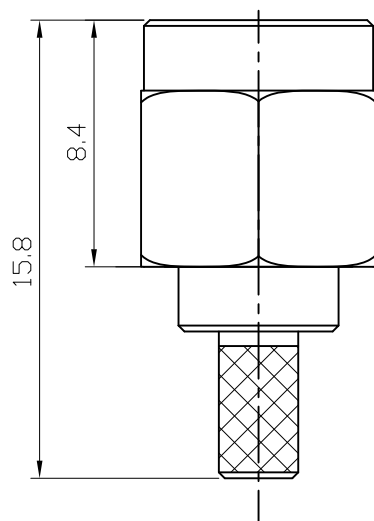


封箱,在側面貼一環保標貼與一外箱標貼.

APPROVED BY : SFCHECKED BY : YSDESIGNED BY : LISA

RoHS

Compatible



外殼材質：黃銅鍍金
絕緣體材質：PTFE.
中心針材質：黃銅鍍金。

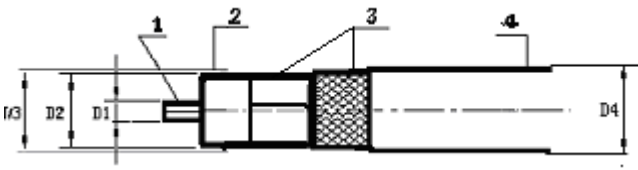
SIGN	DATE	DESCRIPTION	APPROVER
△			
△			
△			

Invax System Group.		Cortec Technology Inc.	
Cortec		Http://www.invaxsystem.com E-mail: info@invax.com.tw	
		Tel:886-2-27885218 Fax:886-2-27831658	
TITLE: SMA(180°)公头公针 FOR RG 174(316)线			
PART NO.: SMA010-CGT574-A		DWG NAME: SMA010-CGT574-A	
APPROVED BY	CHECKED BY	DESIGNED BY	 Tolerance X.X ±0.3 X.XX ±0.2 X° ±1°
		杨升	
		2017/04/13	
		UNITS: mm	
		SCALE: 1/1	
		REVISION: A	

S.R Code: 180407009

R-CB-LMR100B-01 Coaxial Cable Specification

(R-CB-LMR100B-01 同轴电缆规格书)

Type of coaxial cable: R-CB-LMR100B-01					
Legend:					
R-CB-LMR100B-01: 1.Inner conductor 内导体 2. Insulation 电缆芯线 3.Outer conductor 外导体 4. Jacket 护套					
Main Electrical properties:					
Characteristic impedance		阻抗	50±2Ohm		
Rated capacitance		电容	101.05±3 pf/m		
Velocity		速比	66%		
Operating frequency		工作频率	10~3000MHz		
Attenuation at typical frequencies: (dB/m)					
400MHz		900 MHz	1500 MHz	2100MHz	3000MHz
0.489		0.766	1.031	1.250	1.565
VSWR 10~3000MHz		电压驻波比		1.26Max.	
Mechanical Construction:					
Inner conductor: BC		裸铜线		0.46±0.005mm	
Dielectric: XLPE		交联 PE		1.52±0.05mm	
Outer conductor: AP+TC		铝塑复合箔+镀锡铜线		2.10±0.05mm (16*5/0.10mm)	
Jacket :PVC Black		黑色 PVC		2.80±0.10mm	
Engineering data:					
Maximum Pull Tension		最大拉拔力		30lbs	
Minimum bending radius		最小弯曲半径		28mm	
Operating temperature		工作温度		-20~+70℃	
Reel Length		装盘长度		/	
jacket-Marking		产品标识		LOW LOSS 100 PVC COAXIAL CABLE HYT MICROWAVE SYSTEM/NFE	

SuiRong COAXIAL CABLE Co.,Ltd

制造商:深圳市穗榕同轴电缆科技有限公司

WWW.SUIRONGCABLE.COM

生产地:深圳市龙岗区龙西务地铺清水路清水巷 40 号

Tel: +86-755-28217358 Fax+86-755-28217359

2018-4-7

SGS 台灣網站 → http://twap.sgs.com/sgsrsts/chn/cheres_tw.asp
SGS 大陸網站 → http://rsts.cn.sgs.com/chn/cheres_cn.asp
SGS 韓國網站 → http://rohs.kr.sgs.com/sgsrsts/en/cheres_en.asp

COR/F-G-47a

請輸入以下報告正確資料及檢查碼以便查核

- 1. 報告編號
- 2. 報告日期 (YYYY/MM/DD)
- 3. 產品名稱 (輸入前 10 個字不含空白)
- 4. 圖示檢查碼 (依指示畫面)



物料中HSF對象物質含量調查表

康捷電子有限公司	
填表：	時麗
部門：	研發部
職務：	文員

物料名稱：DR0727-9007BSM

序號	物料型號	物料各構成名稱	各構成物料的材质	測試報告裡RoHS對應物質測試結果										檢測報告編號	測試日期	測試名稱	測試機構名稱
				Cd	Pb	Hg	Cr(VI)	PBBs	PBDEs	DBP	BBP	DIBP	DEHP				
1	COVE-DR90-03PAB COVE-DR90-04PAB	Cove	PA66+GF15	N.D.	9	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	SZXPC24001140001	2024.04.22	PA66 1300G	SGS
2	R-HSTUBE-004T	EVA	EVA	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	SZxec23003267002	2023.12.29	HEAT SHRINKABLE TUBING	SGS
3	GS-DR90L-01ME	3M 背膠	3M G8050F	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	CE/2019/B2015	2019.11.19	3M DOUBLE SIDE	SGS
4	SCREW-T525-IRON	SCREW	铁	N.D.	N.D.	N.D.	N.D.							CANEC23008225304	2023.08.21	钢铁线材	SGS
5	/	PCB	FR4	N.D.	8	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	CANEC23010851105	2023.10.11	FR-4.0 CCL&insulating	SGS
6			Green ink	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	SZxec23001478119	2023.07.14	QUID PHOTSENSITIVE	SGS
7			镀锡	N.D.	32	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	CANEC24010342805	2024.05.23	Lead-free solder bar	SGS
8	SMA010-CGT574-A	SMA Male	銅	24	28333	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	CANPC24009508910	2024.05.17	黃銅棒C3604	SGS
9			鍍金	N.D.	10	N.D.	N.D.							SZxec23001825401	2023.08.11	鍍金	SGS
10		Insulator	PTFE	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	A2230516824101001	2023.10.12	PTFE plastics	CTI
11	R-CB-LMR100B-01	Cable	PVC	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	SZxec24001575002	2024.05.23	PVC 胶粒 红色 白色 黑色	SGS
12			PE	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	CANEC23011615457	2023.10.23	PE	SGS
13			裸铜	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	A2240008108101001	2024.01.09	Bare Copper wire	CTI
14			镀锡铜	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	A2240008108101003	2024.01.09	Tinned copper wire	CTI
15			AL	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	199	N.D.	N.D.	N.D.	NGBEC24000950106	2024.03.11	铝箔聚酯膜贴面	SGS

根據測試報告如實填寫鉛、鎘、汞、六價鉻、PBBs和PBDEs六項禁用物質的含量
包裝材料中鉛、鎘、汞、六價鉻總含量不超過100ppm，鎘的允許濃度為5ppm
歐盟ROHS指令豁免條款2015/863/EU、鋼中合金元素中的鉛含量達0.35%、鉛含量達0.4%、銅合金中的鉛含量達4%

Test Report

No.: SZXPC24001140001

Date: Apr 22, 2024

Page 1 of 8

Client Name: DONGGUAN STARPLAS ENGINEERING PLASTICS CO.LTD

Client Address: ROOM 118, BUILDING 8, NO. 75, XIANWEI ROAD, ZHANGMUTOU TOWN, DONGGUAN CITY, GUANGDONG PROVINCE

Sample Name: PA66 1300G

Client Ref. Information: 1402S、1300S、1402SH、1500、1502、1502S、1700S、1702、9400S、13G15、13G43、13G25、14G15、14G20、14G25、14G33、14G50、90G50、90G55、FR200、FR370、FG170、FG172、FG173、SG104、SG114、SN10B

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

SGS Job No.: SZPC2404002164

Sample Receiving Date: Apr 16, 2024

Testing Period: Apr 16, 2024 ~ Apr 22, 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 Co., Ltd. Shenzhen Branch

Fay

Fay Yuan

Approved Signatory

Scan to see the report



SZXPC24001140001

Verification:
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Test Report

No.: SZXPC24001140001

Date: Apr 22, 2024

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Test Result(s):

Test Part Description:

SN ID	Sample No.	SGS Sample ID	Description
SN1	001	SZX24-0011400-0001.C001	Light green plastic grains

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	001
Lead (Pb)	1000	mg/kg	2	9
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 Report

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Test Item(s)	Limit	Unit(s)	MDL	001
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
Benzyl Butyl 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.

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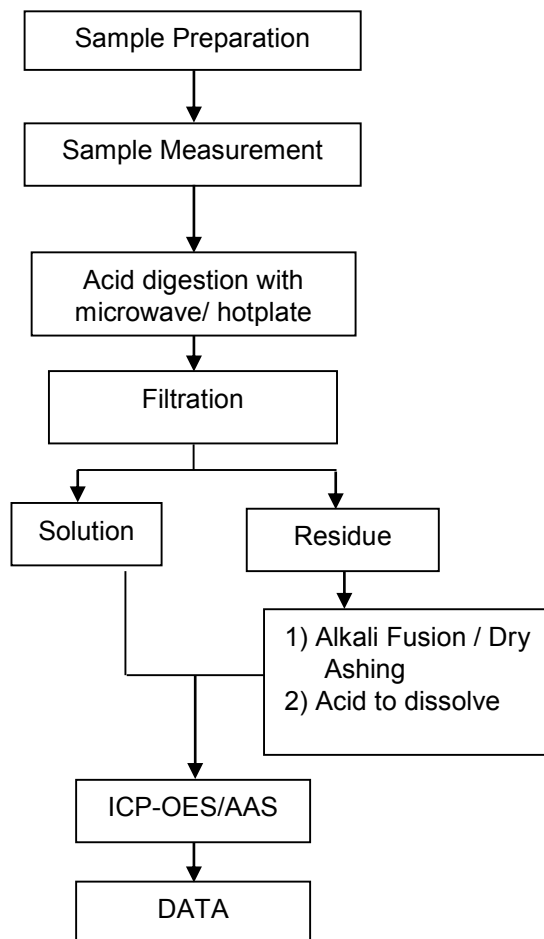
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Elements Testing Flow Chart

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

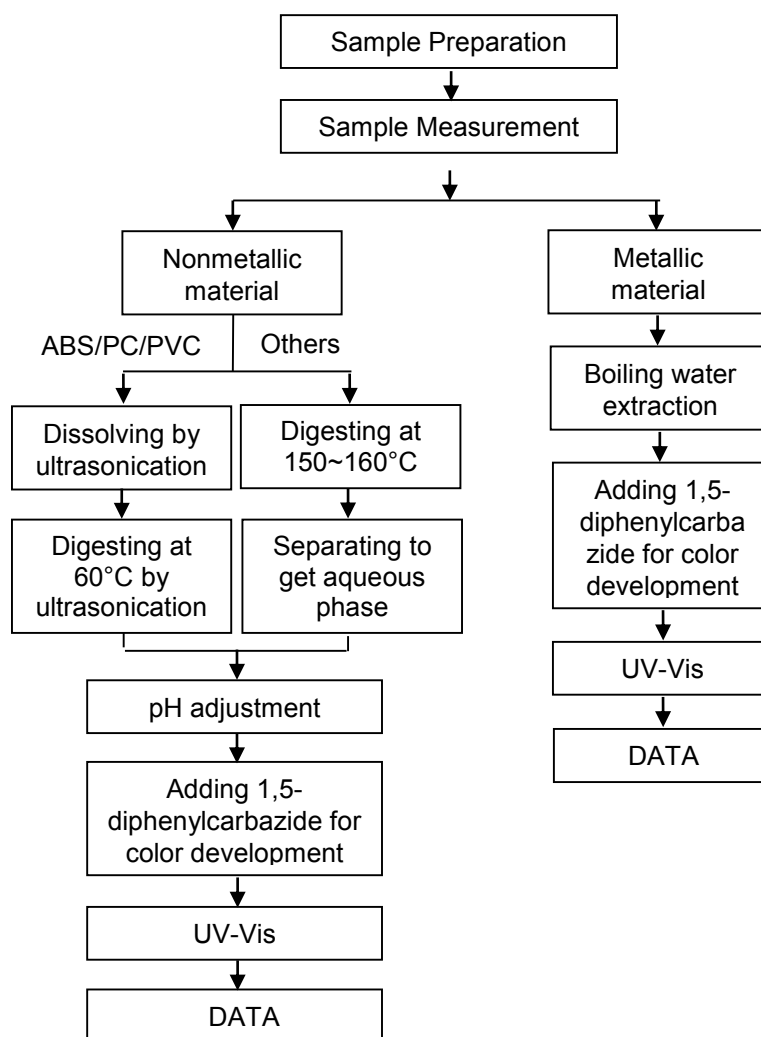


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Hexavalent Chromium (Cr(VI)) Testing Flow Chart



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Test Report

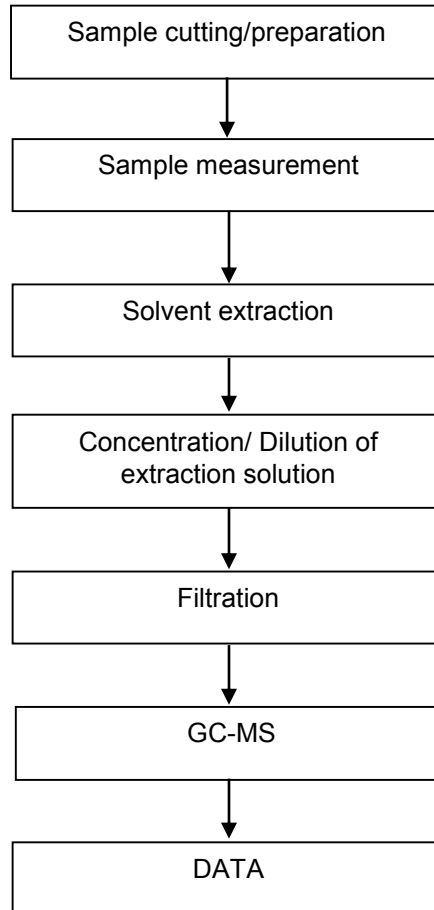
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PBB/PBDE Testing Flow Chart



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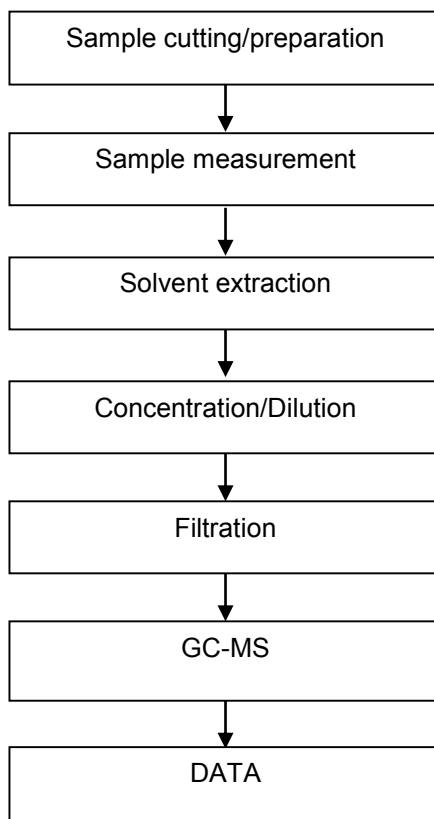
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Phthalates Testing Flow Chart



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Test Report

No.: SZXPC24001140002

Date: Apr 22, 2024

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Client Name: DONGGUAN STARPLAS ENGINEERING PLASTICS CO.LTD

Client Address: ROOM 118, BUILDING 8, NO. 75, XIANWEI ROAD, ZHANGMUTOU TOWN, DONGGUAN CITY, GUANGDONG PROVINCE

Sample Name: PA66 1300G

Client Ref. Information: 1402S、1300S、1402SH、1500、1502、1502S、1700S、1702、9400S、13G15、13G43、13G25、14G15、14G20、14G25、14G33、14G50、90G50、90G55、FR200、FR370、FG170、FG172、FG173、SG104、SG114、SN10B

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

SGS Job No.: SZPC2404002164

Sample Receiving Date: Apr 16, 2024

Testing Period: Apr 16, 2024 ~ Apr 22, 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
Halogen	See Results

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

Fay

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Approved Signatory

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Test Report

No.: SZXPC24001140002

Date: Apr 22, 2024

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Test Result(s):

Test Part Description:

SN ID	Sample No.	SGS Sample ID	Description
SN1	001	SZX24-0011400-0001.C001	Light green plastic grains

Remarks:

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

Halogen

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

Test Item(s)	Unit(s)	MDL	001
Fluorine(F)	mg/kg	20	369
Chlorine(Cl)	mg/kg	50	ND
Bromine(Br)	mg/kg	50	ND
Iodine(I)	mg/kg	50	ND

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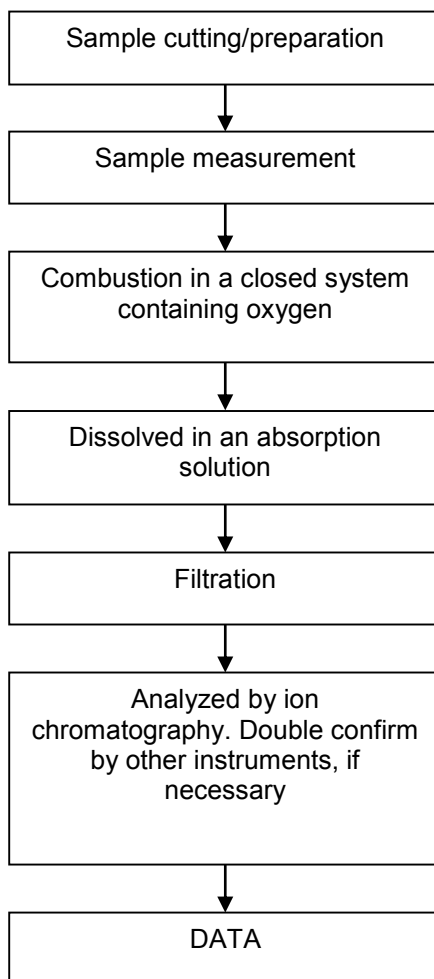
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Halogen Testing Flow Chart



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Shenzhen Branch Testing Services Laboratory

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Test Report

No.: SZXPC24001140002

Date: Apr 22, 2024

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Sample Photo:



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Test Report

No.: SZXEC23003267002

Date: Dec 29, 2023

Page 1 of 8

Client Name: DONGGUAN SALIPT CO., LTD

Client Address: ROOM 102, NO. 1, SOUTH THIRD BAOBEI FUMIN ROAD, DALANG TOWN, DONGGUAN CITY, GUANGDONG PROVINCE

Sample Name: HEAT SHRINKABLE TUBE(BLACK)

Model No.: S-901-600

Client Ref. Information: S-901-300

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

SGS Job No.: SZP23-033803

Sample Receiving Date: Dec 26, 2023

Testing Period: Dec 26, 2023 ~ Dec 29, 2023

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 (PBBs), Polybrominated diphenyl ethers (PBDEs), 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. Shenzhen Branch

Andy

Andy Ni
Approved Signatory

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Test Report

No.: SZXEC23003267002

Date: Dec 29, 2023

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Test Result(s):

Test Part Description:

SN ID	Sample No.	SGS Sample ID	Description
SN1	A1	SZX23-0032670-0001.C001	Black tube

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 (PBBs), Polybrominated diphenyl ethers (PBDEs), 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, UV-Vis and GC-MS.

Test Item(s)	Limit	Unit(s)	MDL	A1
Cadmium (Cd)	100	mg/kg	2	ND
Lead (Pb)	1000	mg/kg	2	ND
Mercury (Hg)	1000	mg/kg	2	ND
Hexavalent Chromium (Cr(VI))	1000	mg/kg	8	ND
Polybromobiphenyl (PBBs)	1000	mg/kg	-	ND
Monobromobiphenyl (MonoBB)	-	mg/kg	5	ND
Dibromobiphenyl (DiBB)	-	mg/kg	5	ND
Tribromobiphenyl (TriBB)	-	mg/kg	5	ND
Tetrabromobiphenyl (TetraBB)	-	mg/kg	5	ND
Pentabromobiphenyl (PentaBB)	-	mg/kg	5	ND
Hexabromobiphenyl (HexaBB)	-	mg/kg	5	ND
Heptabromobiphenyl (HeptaBB)	-	mg/kg	5	ND
Octabromobiphenyl (OctaBB)	-	mg/kg	5	ND
Nonabromobiphenyl (NonaBB)	-	mg/kg	5	ND
Decabromobiphenyl (DecaBB)	-	mg/kg	5	ND
Polybromodiphenyl ether (PBDEs)	1000	mg/kg	-	ND
Monobromodiphenylether (MonoBDE)	-	mg/kg	5	ND
Dibromodiphenylether (DiBDE)	-	mg/kg	5	ND
Tribromodiphenylether (TriBDE)	-	mg/kg	5	ND
Tetrabromodiphenylether (TetraBDE)	-	mg/kg	5	ND
Pentabromodiphenylether (PentaBDE)	-	mg/kg	5	ND
Hexabromodiphenylether (HexaBDE)	-	mg/kg	5	ND
Heptabromodiphenylether (HeptaBDE)	-	mg/kg	5	ND
Octabromodiphenylether (OctaBDE)	-	mg/kg	5	ND
Nonabromodiphenylether (NonaBDE)	-	mg/kg	5	ND
Decabromodiphenylether (DecaBDE)	-	mg/kg	5	ND
Dibutyl Phthalate (DBP)	1000	mg/kg	50	ND
Benzyl Butyl Phthalate (BBP)	1000	mg/kg	50	ND



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Test Report

No.: SZXEC23003267002

Date: Dec 29, 2023

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Test Item(s)	Limit	Unit(s)	MDL	A1
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) 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.

Remark: Results & photo(s) of this report refer to test report SZXEC23003267001.

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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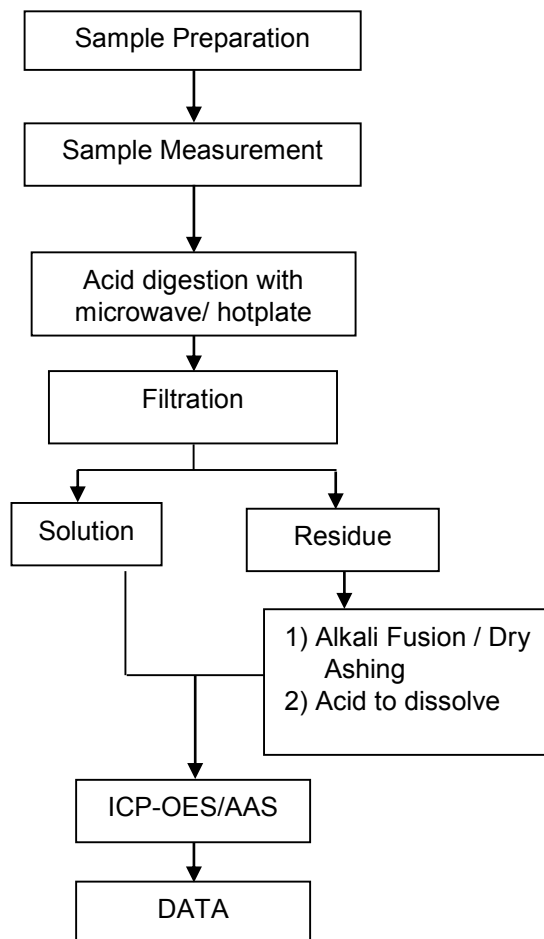
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Elements Testing Flow Chart

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



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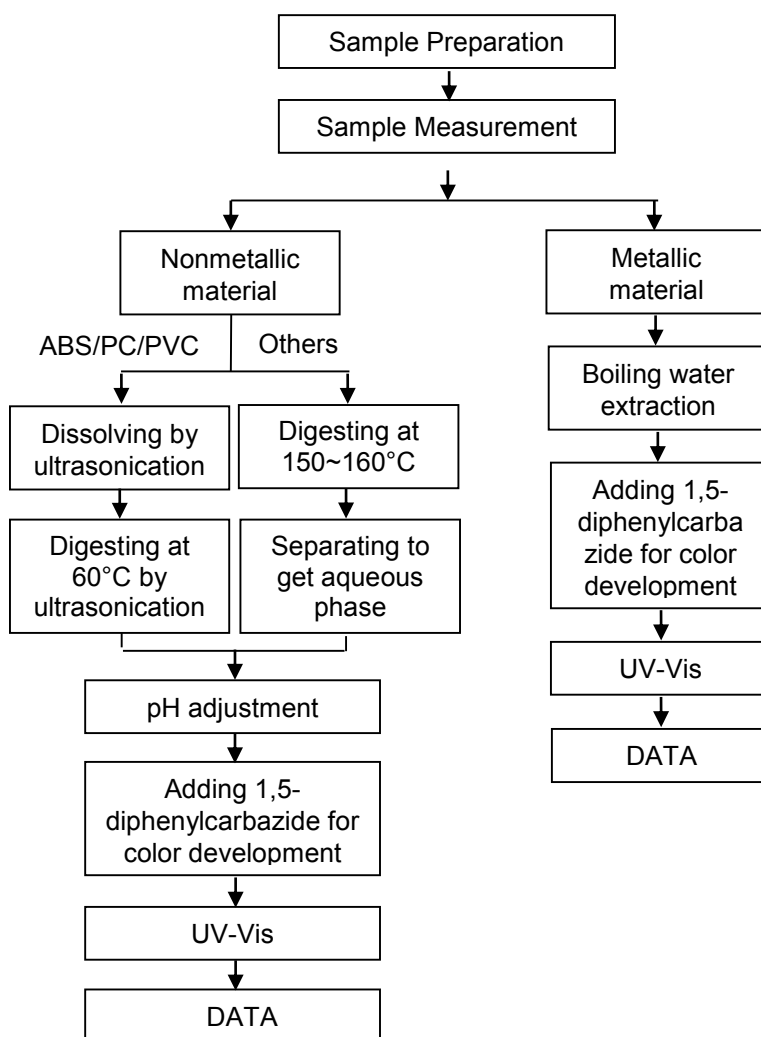
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Hexavalent Chromium (Cr(VI)) Testing Flow Chart



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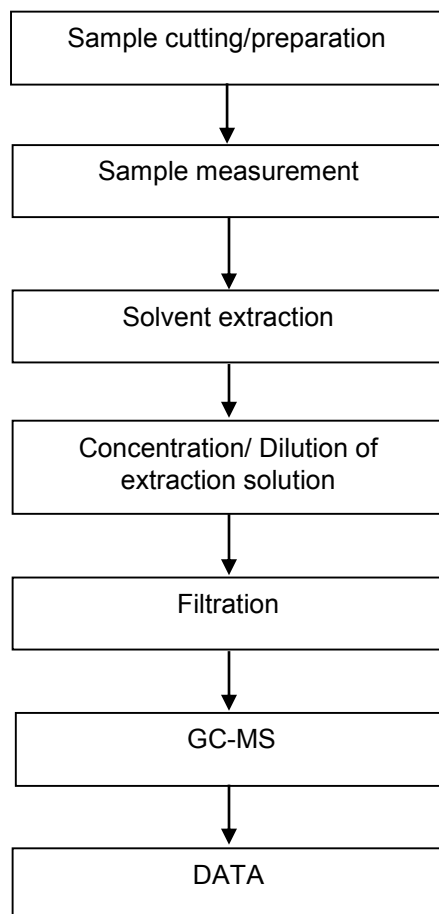
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PBBs/PBDEs Testing Flow Chart



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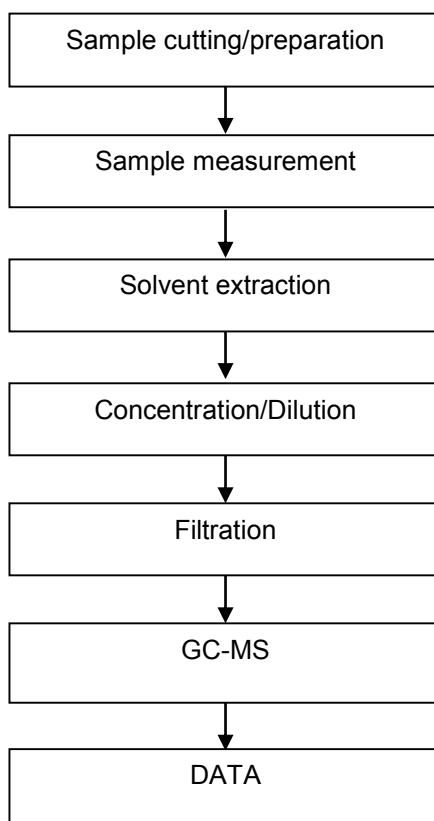
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Phthalates Testing Flow Chart



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測試報告

Test Report

號碼(No.) : CE/2019/B2015

日期(Date) : 2019/11/19

頁數(Page): 1 of 12

聯勝國際科技股份有限公司

VICTORY UNION IT CO., LTD.

桃園市桃園區春日路1492之7號5樓

ROOM 7, 5F., NO. 1492-7, CHUNRI RD., TAOYUAN DISTRICT, TAOYUAN CITY 33051, TAIWAN

以下測試樣品係由申請廠商所提供及確認 (The following sample(s) was/were submitted and identified by/on behalf of the applicant as):

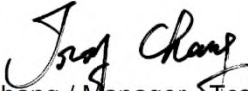
送樣廠商(Sample Submitted By) : 聯勝國際科技股份有限公司 (VICTORY UNION IT CO., LTD.)
 樣品名稱(Sample Description) : 3M DOUBLE SIDE COATED TAPE
 樣品型號(Style/Item No.) : 4229P, PT1100, 6915B, 6920B, 6925B, 6930B, 1600TG, 3605B, 3610B, 69820, 69825, 69830, 1620TB, WT15, WT20, WT25, WT30, T015XB, T020XB, T025XB, T030XB
 收件日期(Sample Receiving Date) : 2019/11/12
 測試期間(Testing Period) : 2019/11/12 to 2019/11/19

測試需求(Test Requested):

- (1) 依據客戶指定，參考RoHS 2011/65/EU Annex II及其修訂指令(EU) 2015/863測試鎘、鉛、汞、六價鉻、多溴聯苯、多溴聯苯醚，DBP, BBP, DEHP, DIBP. (As specified by client, with reference to RoHS 2011/65/EU Annex II and amending Directive (EU) 2015/863 to determine Cadmium, Lead, Mercury, Cr(VI), PBBs, PBDEs, DBP, BBP, DEHP, DIBP contents in the submitted sample(s).)
- (2) 其他測試項目請見下一頁。(Please refer to next pages for the other item(s).)

測試結果(Test Results) : 請參閱下一頁 (Please refer to following pages).

結論(Conclusion) : (1) 根據客戶所選擇的部位測試，其鎘、鉛、汞、六價鉻、多溴聯苯、多溴聯苯醚，DBP, BBP, DEHP, DIBP的測試結果符合RoHS 2011/65/EU Annex II暨其修訂指令(EU) 2015/863之限值要求。(Based on the performed tests on selected part of submitted sample(s), the test results of Cadmium, Lead, Mercury, Cr(VI), PBBs, PBDEs, DBP, BBP, DEHP, DIBP comply with the limits as set by RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU.)


 Troy Chang / Manager - Tech
 Signed for and behalf of
 SGS TAIWAN LTD.
 Chemical Laboratory - Taipei



測試報告

Test Report

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聯勝國際科技股份有限公司

VICTORY UNION IT CO., LTD.

桃園市桃園區春日路1492之7號5樓

ROOM 7, 5F., NO. 1492-7, CHUNRI RD., TAOYUAN DISTRICT, TAOYUAN CITY 33051, TAIWAN

測試結果(Test Results)

測試部位(PART NAME)No. 1 : 黑色雙面膠(不含上下離型膜) (BLACK TWIN ADHESIVE TAPE (EXCLUDING THE UPPER AND LOWER RELEASE FILM))

測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	MDL	結果 (Result)	限值 (Limit)
				No. 1	
鎘 / Cadmium (Cd)	mg/kg	參考 IEC 62321-5 (2013), 以感應耦合電漿發射光譜儀檢測. / With reference to IEC 62321-5 (2013) and performed by ICP-OES.	2	n. d.	100
鉛 / Lead (Pb)	mg/kg		2	n. d.	1000
汞 / Mercury (Hg)	mg/kg		2	n. d.	1000
六價鉻 / Hexavalent Chromium Cr(VI)	mg/kg	參考 IEC 62321-7-2 (2017), 以UV-VIS檢測. / With reference to IEC 62321-7-2 (2017) and performed by UV-VIS.	8	n. d.	1000
多溴聯苯總和 / Sum of PBBs	mg/kg	參考 IEC 62321-6 (2015), 以氣相層析/質譜儀檢測. / With reference to IEC 62321-6 (2015) and performed by GC/MS.	-	n. d.	1000
一溴聯苯 / Monobromobiphenyl	mg/kg		5	n. d.	-
二溴聯苯 / Dibromobiphenyl	mg/kg		5	n. d.	-
三溴聯苯 / Tribromobiphenyl	mg/kg		5	n. d.	-
四溴聯苯 / Tetrabromobiphenyl	mg/kg		5	n. d.	-
五溴聯苯 / Pentabromobiphenyl	mg/kg		5	n. d.	-
六溴聯苯 / Hexabromobiphenyl	mg/kg		5	n. d.	-
七溴聯苯 / Heptabromobiphenyl	mg/kg		5	n. d.	-
八溴聯苯 / Octabromobiphenyl	mg/kg		5	n. d.	-
九溴聯苯 / Nonabromobiphenyl	mg/kg		5	n. d.	-
十溴聯苯 / Decabromobiphenyl	mg/kg		5	n. d.	-

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測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	MDL	結果 (Result)	限值 (Limit)
				No. 1	
多溴聯苯醚總和 / Sum of PBDEs	mg/kg	參考IEC 62321-6 (2015), 以氣相層析/ 質譜儀檢測. / With reference to IEC 62321-6 (2015) and performed by GC/MS.	-	n. d.	1000
一溴聯苯醚 / Monobromodiphenyl ether	mg/kg		5	n. d.	-
二溴聯苯醚 / Dibromodiphenyl ether	mg/kg		5	n. d.	-
三溴聯苯醚 / Tribromodiphenyl ether	mg/kg		5	n. d.	-
四溴聯苯醚 / Tetrabromodiphenyl ether	mg/kg		5	n. d.	-
五溴聯苯醚 / Pentabromodiphenyl ether	mg/kg		5	n. d.	-
六溴聯苯醚 / Hexabromodiphenyl ether	mg/kg		5	n. d.	-
七溴聯苯醚 / Heptabromodiphenyl ether	mg/kg		5	n. d.	-
八溴聯苯醚 / Octabromodiphenyl ether	mg/kg		5	n. d.	-
九溴聯苯醚 / Nonabromodiphenyl ether	mg/kg		5	n. d.	-
十溴聯苯醚 / Decabromodiphenyl ether	mg/kg		5	n. d.	-
鄰苯二甲酸丁苯甲酯 / BBP (Butyl Benzyl phthalate) (CAS No. : 85-68-7)	mg/kg	參考IEC 62321-8 (2017), 以氣相層析/ 質譜儀檢測. / With reference to IEC 62321-8 (2017). Analysis was performed by GC/MS.	50	n. d.	1000
鄰苯二甲酸二丁酯 / DBP (Dibutyl phthalate) (CAS No. : 84-74-2)	mg/kg		50	n. d.	1000
鄰苯二甲酸二(2-乙基己基)酯 / DEHP (Di- (2-ethylhexyl) phthalate) (CAS No. : 117-81-7)	mg/kg		50	n. d.	1000
鄰苯二甲酸二異丁酯 / DIBP (Di-isobutyl phthalate) (CAS No. : 84-69-5)	mg/kg		50	n. d.	1000
鄰苯二甲酸二異癸酯 / DIDP (Di-isodecyl phthalate) (CAS No. : 26761-40-0; 68515-49-1)	mg/kg		50	n. d.	-

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測試項目 (Test Items)	單位 (Unit)	測試方法 (Method)	MDL	結果 (Result)	限值 (Limit)
				No. 1	
鄰苯二甲酸二異壬酯 / DINP (Di-isononyl phthalate) (CAS No.: 28553-12-0; 68515-48-0)	mg/kg	參考IEC 62321-8 (2017), 以氣相層析/質譜儀檢測. / With reference to IEC 62321-8 (2017). Analysis was performed by GC/MS.	50	n. d.	-
鄰苯二甲酸二正辛酯 / DNOP (Di-n-octyl phthalate) (CAS No.: 117-84-0)	mg/kg		50	n. d.	-
六溴環十二烷及所有主要被辨別出的異構物 / Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified (α -HBCDD, β -HBCDD, γ -HBCDD) (CAS No.: 25637-99-4 and 3194-55-6 (134237-51-7, 134237-50-6, 134237-52-8))	mg/kg	參考IEC 62321 (2008), 以氣相層析/質譜儀檢測. / With reference to IEC 62321 (2008). Analysis was performed by GC/MS.	5	n. d.	-
鹵素 / Halogen					
鹵素 (氟) / Halogen-Fluorine (F) (CAS No.: 14762-94-8)	mg/kg	參考BS EN 14582 (2016), 以離子層析儀分析. / With reference to BS EN 14582 (2016). Analysis was performed by IC.	50	n. d.	-
鹵素 (氯) / Halogen-Chlorine (Cl) (CAS No.: 22537-15-1)	mg/kg		50	79.6	-
鹵素 (溴) / Halogen-Bromine (Br) (CAS No.: 10097-32-2)	mg/kg		50	n. d.	-
鹵素 (碘) / Halogen-Iodine (I) (CAS No.: 14362-44-8)	mg/kg		50	n. d.	-
全氟辛烷磺酸 / Perfluorooctane sulfonates (PFOS-Acid, Metal Salt, Amide)	mg/kg	參考CEN/TS 15968 (2010), 以液相層析/質譜儀檢測. / With reference to CEN/TS 15968 (2010). Analysis was performed by LC/MS.	0.01	n. d.	-
全氟辛酸 / PFOA (CAS No.: 335-67-1)	mg/kg		0.01	n. d.	-

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備註(Note) :

1. mg/kg = ppm ; 0.1wt% = 1000ppm
2. MDL = Method Detection Limit (方法偵測極限值)
3. n.d. = Not Detected (未檢出)
4. "-" = Not Regulated (無規格值)

PFOS參考資訊(Reference Information) : 持久性有機污染物 POPs - (EU) 2019/1021

PFOS濃度在物質或製備中不得超過0.001%(10ppm)，在半成品、成品或零部件中不得超過0.1%(1000ppm)，在紡織品或塗層材料中不得超過 $1\mu\text{g}/\text{m}^2$ 。

(Outlawing PFOS as substances or preparations in concentrations above 0.001% (10ppm), in semi-finished products or articles or parts at a level above 0.1%(1000ppm), in textiles or other coated materials above $1\mu\text{g}/\text{m}^2$.)

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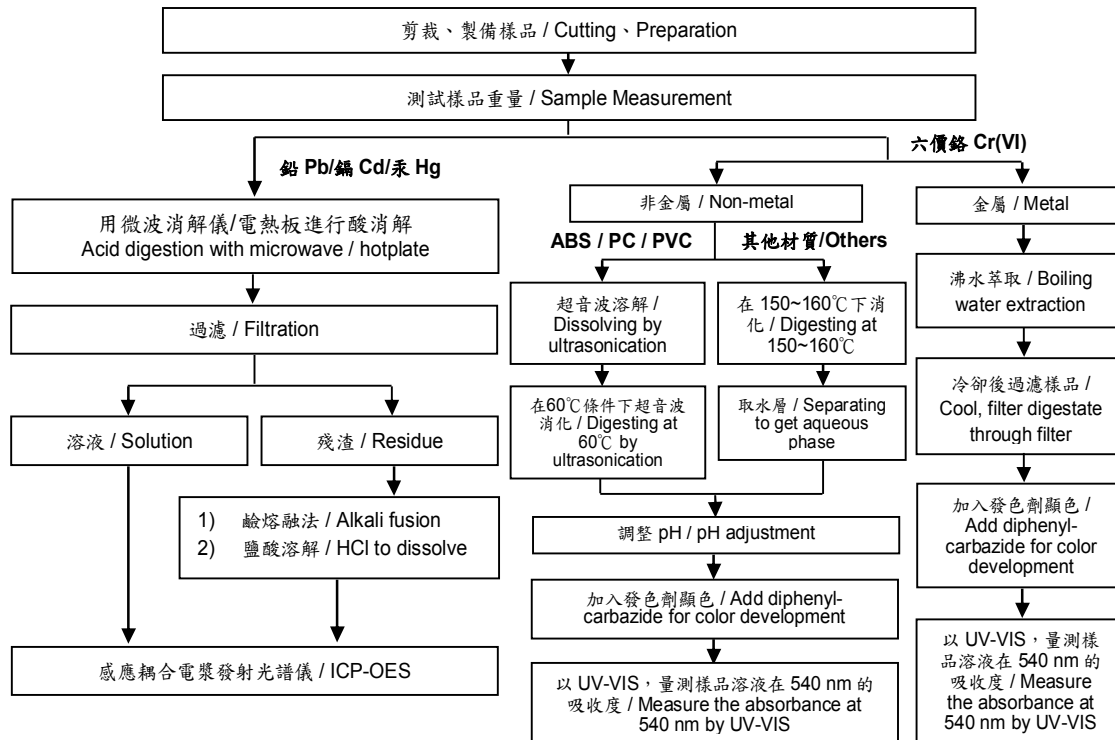
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重金屬流程圖 / Analytical flow chart of Heavy Metal

根據以下的流程圖之條件，樣品已完全溶解。(六價鉻測試方法除外)

These samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr⁶⁺ test method excluded)

- 測試人員：陳思臻 / Technician: Rita Chen
- 測試負責人：張啟興 / Supervisor: Troy Chang



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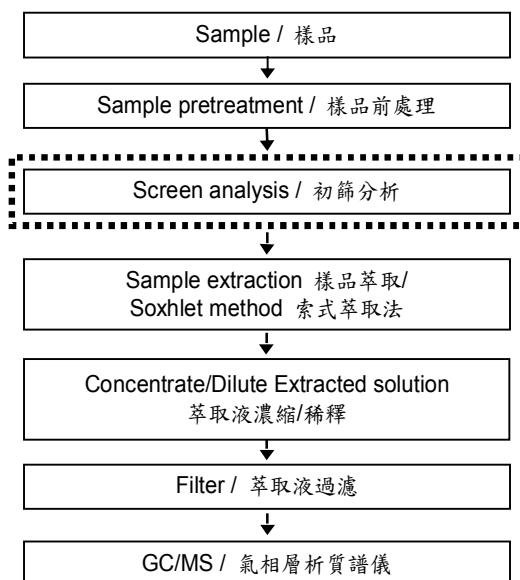
多溴聯苯/多溴聯苯醚分析流程圖 / Analytical flow chart - PBB/PBDE

- 測試人員：涂雅苓 / Technician: Yaling Tu
- 測試負責人：張啟興 / Supervisor: Troy Chang

初次測試程序 / First testing process —————>

選擇性篩檢程序 / Optional screen process>

確認程序 / Confirmation process - - ->



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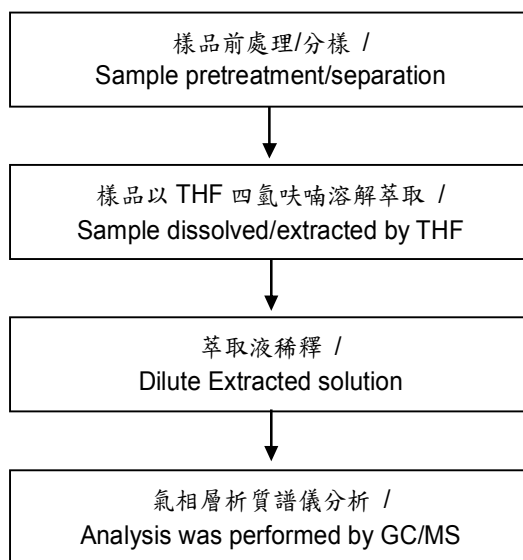
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可塑劑分析流程圖 / Analytical flow chart - Phthalate

- 測試人員：涂雅苓 / Technician: Yaling Tu
- 測試負責人：張啟興 / Supervisor : Troy Chang

【測試方法/Test method: IEC 62321-8】



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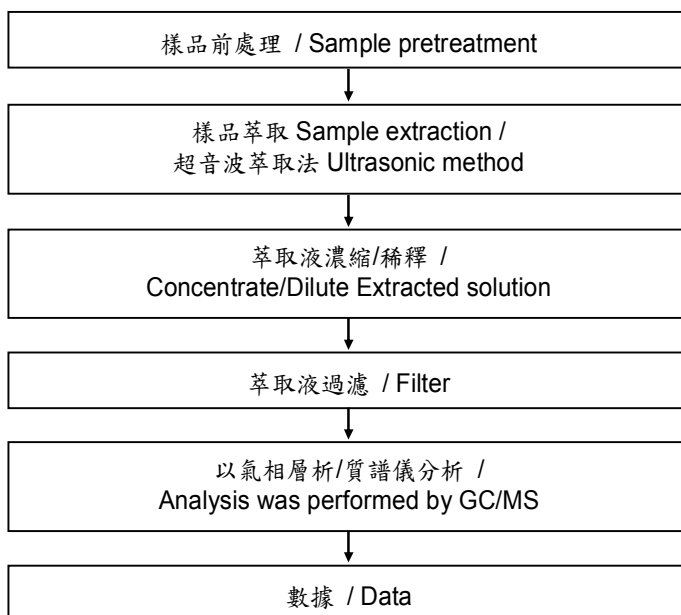
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六溴環十二烷分析流程圖 / Analytical flow chart - HBCDD

- 測試人員：涂雅苓 / Technician: Yaling Tu
- 測試負責人：張啟興 / Supervisor: Troy Chang



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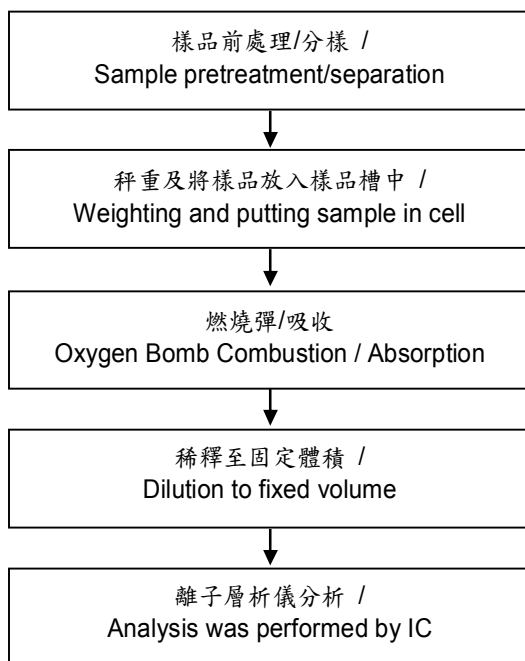
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鹵素分析流程圖 / Analytical flow chart - Halogen

- 測試人員：陳恩臻 / Technician: Rita Chen
- 測試負責人：張啟興 / Supervisor: Troy Chang



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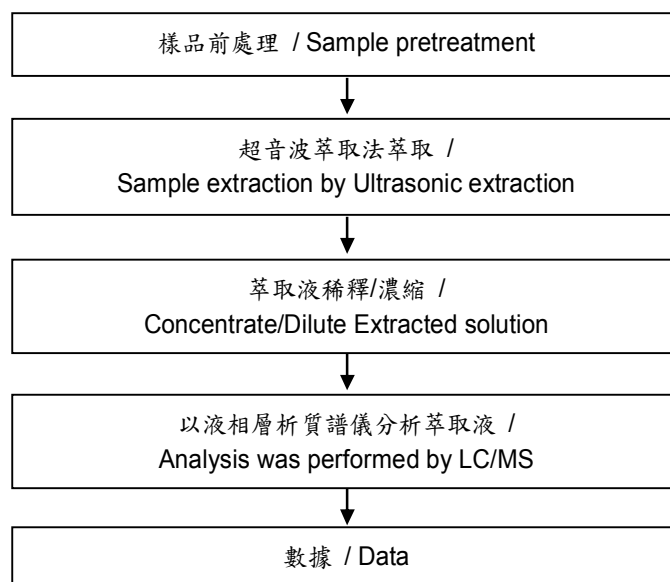
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全氟辛酸/全氟辛烷磺酸分析流程圖 / Analytical flow chart - PFOA/PFOS

- 測試人員：涂雅苓 / Technician: Yaling Tu
- 測試負責人：張啟興 / Supervisor: Troy Chang



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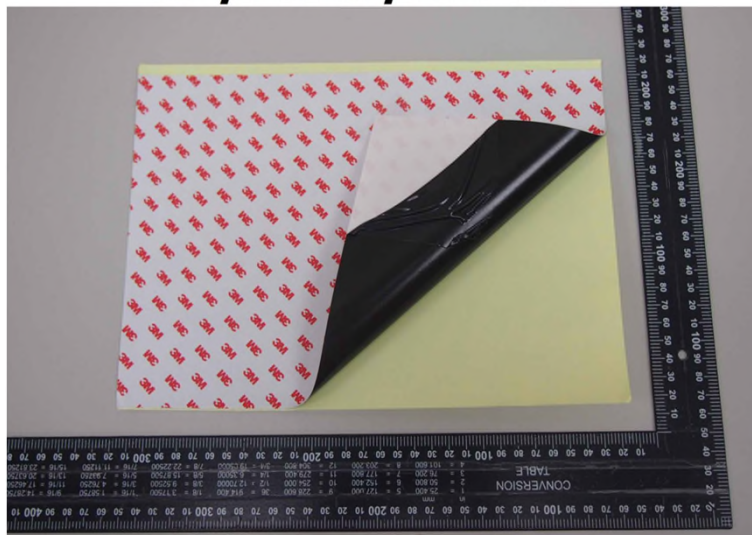
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* 照片中如有箭頭標示，則表示為實際檢測之樣品/部位。*

(The tested sample / part is marked by an arrow if it's shown on the photo.)

CE/2019/B2015



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检测报告

编号: CANEC23008225304

日期: 2023 年 08 月 21 日

第 1 页, 共 5 页

客户名称: 广西东来五金制品有限公司

客户地址: 广西壮族自治区贵港市覃塘区沿江三路与进港四路交汇处西北角(石卡园)

样品名称: 钢铁线材

材质: SWRCH 18A

以上样品及信息由客户提供。

SGS 工作编号: GZP23-010353

样品接收时间: 2023 年 08 月 16 日

检测周期: 2023 年 08 月 16 日 ~ 2023 年 08 月 21 日

检测要求: 根据客户要求检测

检测方法: 见后续页。

检测结果: 见后续页。

检测要求	结论
欧盟 RoHS 指令 2011/65/EU 附录 II 的修正指令(EU) 2015/863-铅、汞、镉和六价铬	符合

通标标准技术服务有限公司广州分公司
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谢冬育

Dongyu Xie 谢冬育
批准签署人

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检测报告

编号: CANEC23008225304

日期: 2023 年 08 月 21 日

第 2 页, 共 5 页

检测结果:

检测部件外观描述:

样品序号	样品编号	SGS 样品 ID	样品描述
SN1	A2	CAN23-0082253-0001.C002	银灰色金属

备注:

- (1) 1 mg/kg = 1 ppm = 0.0001%
- (2) MDL = 方法检测限
- (3) ND = 未检出 (< MDL)
- (4) "-" = 未规定

欧盟 RoHS 指令 2011/65/EU 附录 II 的修正指令(EU) 2015/863-铅、汞、镉和六价铬

检测方法: 参考 IEC 62321-4:2013+AMD1:2017, IEC 62321-5:2013 和 IEC 62321-7-1:2015, 采用 ICP-OES 和 UV-Vis 进行分析。

检测项目	限值	单位	MDL	A2
镉 (Cd)	100	mg/kg	2	ND
铅 (Pb)	1000	mg/kg	2	ND
汞 (Hg)	1000	mg/kg	2	ND
六价铬(Cr(VI)) ▼	-	µg/cm ²	0.10	ND

备注:

- (1) 最大允许极限值引用自RoHS指令(EU) 2015/863。
- (2) IEC 62321系列等同于 EN 62321系列。
- (3) ▼ = a. 当六价铬的浓度高于0.13 µg/cm²时, 样品为阳性, 即含有六价铬;
b. 当六价铬的浓度为ND (低于0.10 µg/cm²) 时, 样品为阴性, 即未检测到六价铬;
c. 当六价铬的浓度介于0.10 µg/cm²与0.13 µg/cm²之间时, 无法直接判定是否检测到六价铬, 因不同个体的样品表面差异可能会影响测定结果。

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

除非另有说明, 参照 ILAC-G8:09/2019, 使用简单接受 ($w=0$) 的二元判定规则进行符合性判定。

除非另有说明, 此报告结果仅对检测的样品负责。本报告未经本公司书面许可, 不可部分复制。

检测报告仅用于客户科研、教学、内部质量控制、产品研发等目的, 仅供内部参考。



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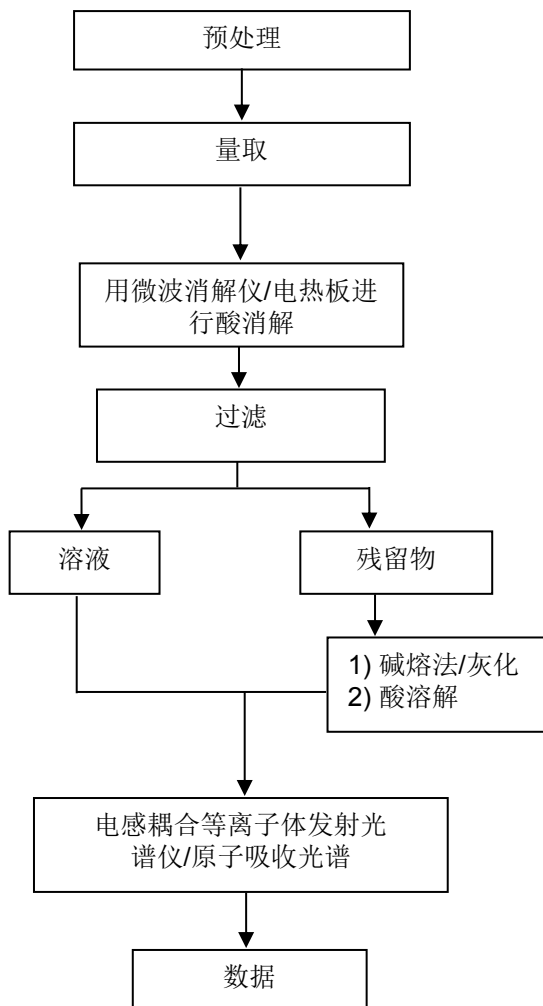
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元素检测流程图

样品按照下述流程被完全消解

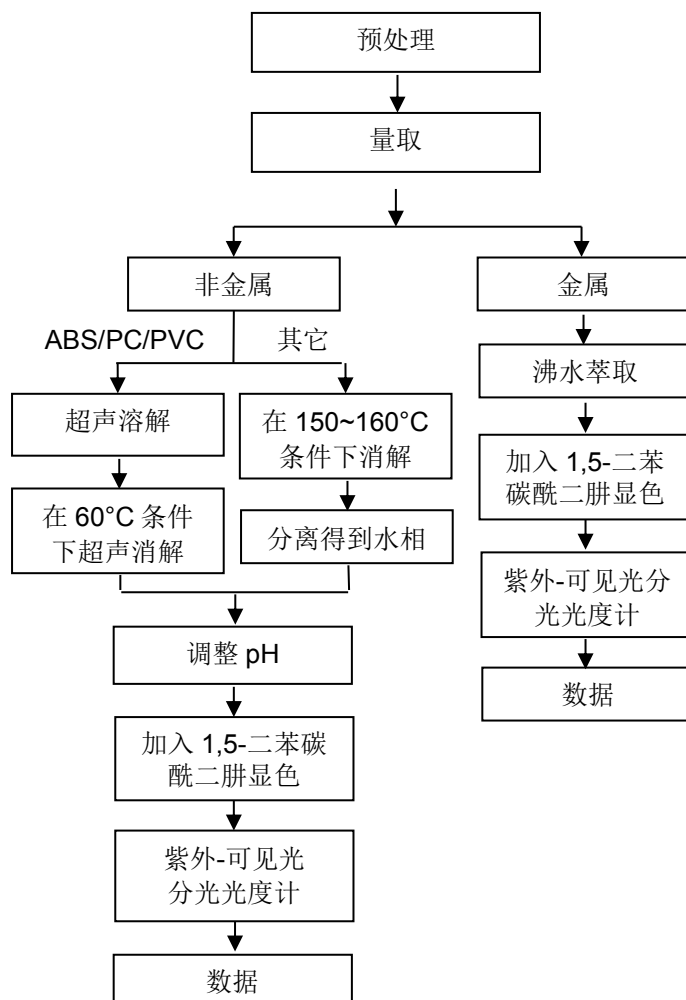


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六价铬检测流程图



检测报告

编号: CANEC23008225304

日期: 2023 年 08 月 21 日

第 5 页, 共 5 页

样品照片:



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Test Report

No.: SZXEC23001478119

Date: Jul 14, 2023

Page 1 of 8

Client Name: HUIZHOU ZHONGKAI HIGH-TECH ZONE SHUANGYIDA ELECTRONIC MATERIAL FACTORY

Client Address: GUANGHE TONGHU TOWN ZHONGKAI DISTRICT HUIZHOU CITY, GUANGDONG CHINA

Sample Name: LIQUID PHOTSENSITIVE SOLDER RESIST INK(GREEN)

Model No.: ZX-201G

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

SGS Job No.: SZP23-009071

Sample Receiving Date: Jul 07, 2023

Testing Period: Jul 07, 2023 ~ Jul 14, 2023

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).

Summary:

EU RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU- Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBBs), Polybrominated diphenyl ethers (PBDEs), 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. Shenzhen Branch

Ford

Ford Shi

Approved Signatory



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Test Report

No.: SZXEC23001478119

Date: Jul 14, 2023

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Test Result(s):

Test Part Description:

SN ID	Sample No.	SGS Sample ID	Description
SN1	A10	SZX23-0014781-0001.C010	Green paste

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 (PBBs), Polybrominated diphenyl ethers (PBDEs), 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, UV-Vis and GC-MS.

Test Item(s)	Limit	Unit(s)	MDL	A10
Cadmium(Cd)	100	mg/kg	2	ND
Lead(Pb)	1000	mg/kg	2	ND
Mercury(Hg)	1000	mg/kg	2	ND
Hexavalent Chromium (Cr(VI))	1000	mg/kg	8	ND
Polybromobiphenyl (PBBs)	1000	mg/kg	-	ND
Monobromobiphenyl (MonoBB)	-	mg/kg	5	ND
Dibromobiphenyl (DiBB)	-	mg/kg	5	ND
Tribromobiphenyl (TriBB)	-	mg/kg	5	ND
Tetrabromobiphenyl (TetraBB)	-	mg/kg	5	ND
Pentabromobiphenyl (PentaBB)	-	mg/kg	5	ND
Hexabromobiphenyl (HexaBB)	-	mg/kg	5	ND
Heptabromobiphenyl (HeptaBB)	-	mg/kg	5	ND
Octabromobiphenyl (OctaBB)	-	mg/kg	5	ND
Nonabromobiphenyl (NonaBB)	-	mg/kg	5	ND
Decabromobiphenyl (DecaBB)	-	mg/kg	5	ND
Polybromodiphenyl ether(PBDEs)	1000	mg/kg	-	ND
Monobromodiphenylether (MonoBDE)	-	mg/kg	5	ND
Dibromodiphenylether (DiBDE)	-	mg/kg	5	ND
Tribromodiphenylether (TriBDE)	-	mg/kg	5	ND
Tetrabromodiphenylether (TetraBDE)	-	mg/kg	5	ND
Pentabromodiphenylether (PentaBDE)	-	mg/kg	5	ND
Hexabromodiphenylether (HexaBDE)	-	mg/kg	5	ND
Heptabromodiphenylether (HeptaBDE)	-	mg/kg	5	ND
Octabromodiphenylether (OctaBDE)	-	mg/kg	5	ND
Nonabromodiphenylether (NonaBDE)	-	mg/kg	5	ND
Decabromodiphenylether (DecaBDE)	-	mg/kg	5	ND
Dibutyl Phthalate(DBP)	1000	mg/kg	50	ND
Benzyl Butyl Phthalate(BBP)	1000	mg/kg	50	ND



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Test Report

No.: SZXEC23001478119

Date: Jul 14, 2023

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Test Item(s)	Limit	Unit(s)	MDL	A10
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) 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.

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.



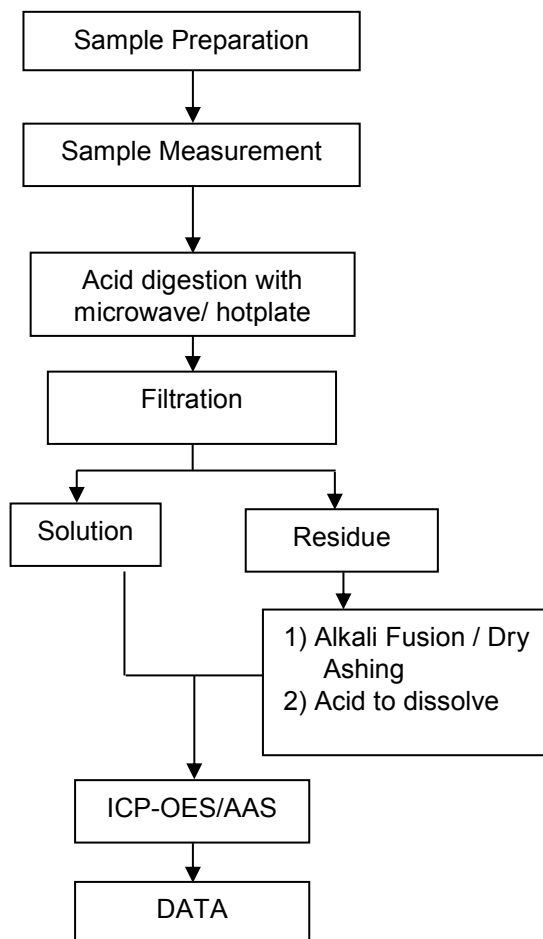
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Elements Testing Flow Chart

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



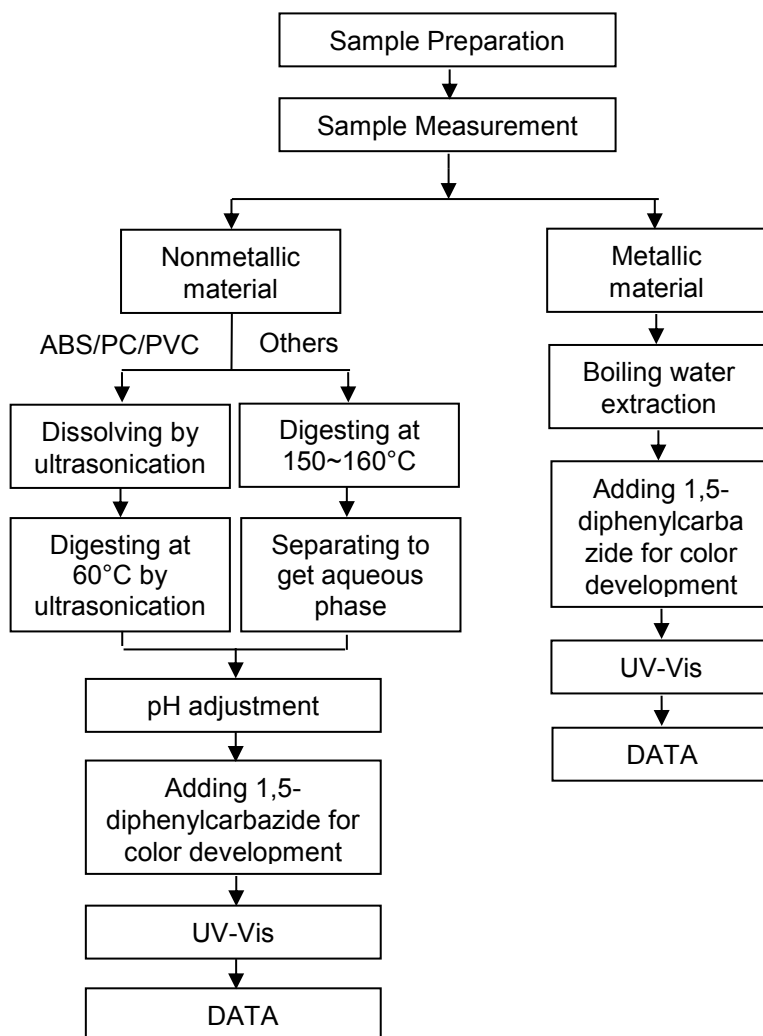
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ATTACHMENTS

Hexavalent Chromium (Cr(VI)) Testing Flow Chart



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Test Report

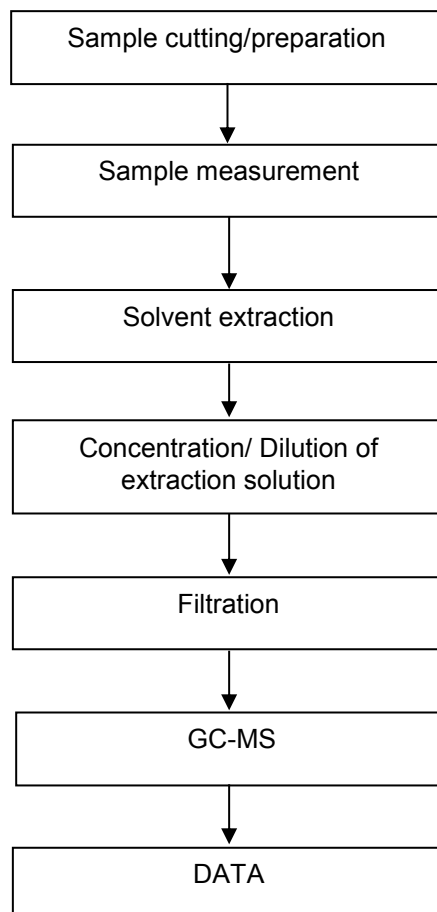
No.: SZXEC23001478119

Date: Jul 14, 2023

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ATTACHMENTS

PBBs/PBDEs Testing Flow Chart



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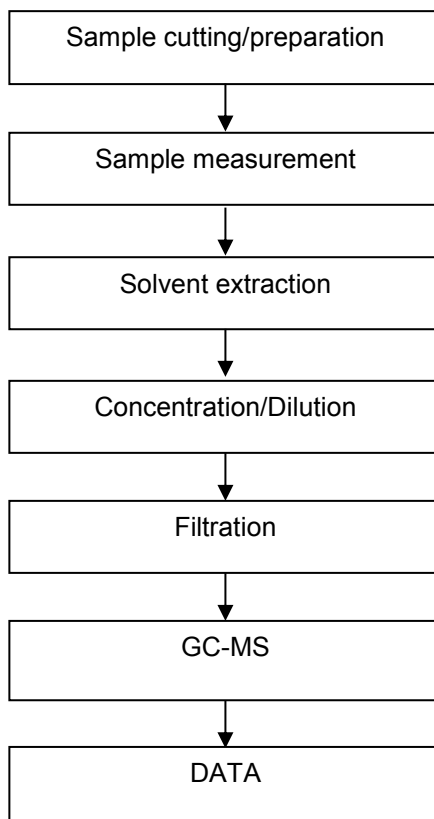
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Phthalates Testing Flow Chart



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Sample Photo:



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Test Report

No.: CANEC24010342805

Date: May 23, 2024

Page 1 of 8

Client Name: SHEN ZHEN CITY BAODA TIN CO.,LTD

Client Address: ROOM 101, BUILDING 2, HUAYIXIONG FACTORY, BUILDING 5, 8TH ROAD,
YANGYONG INDUSTRIAL ZONE, SHAPU COMMUNITY, SONGGANG STREET,
BAO'AN DISTRICT, SHENZHEN

Sample Name: Lead-free solder bar

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

SGS Job No.: GZP24-015996

Sample Receiving Date: May 17, 2024

Testing Period: May 17, 2024 ~ May 23, 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 Co., Ltd. Guangzhou Branch

Jessie Li

Jessie-JX Li

Approved Signatory



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Test Result(s):

Test Part Description:

SN ID	Sample No.	SGS Sample ID	Description
SN1	A2	CAN24-0103428-0001.C002	Silvery 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, 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 IEC62321-8:2017, analysis was performed by ICP-OES/AAS, UV-Vis and GC-MS.

Test Item(s)	Limit	Unit(s)	MDL	A2
Lead (Pb)	1000	mg/kg	2	32
Mercury (Hg)	1000	mg/kg	2	ND
Cadmium (Cd)	100	mg/kg	2	ND
Hexavalent Chromium (Cr(VI))▼	-	µg/cm ²	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	A2
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) ▼ =
 - 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.

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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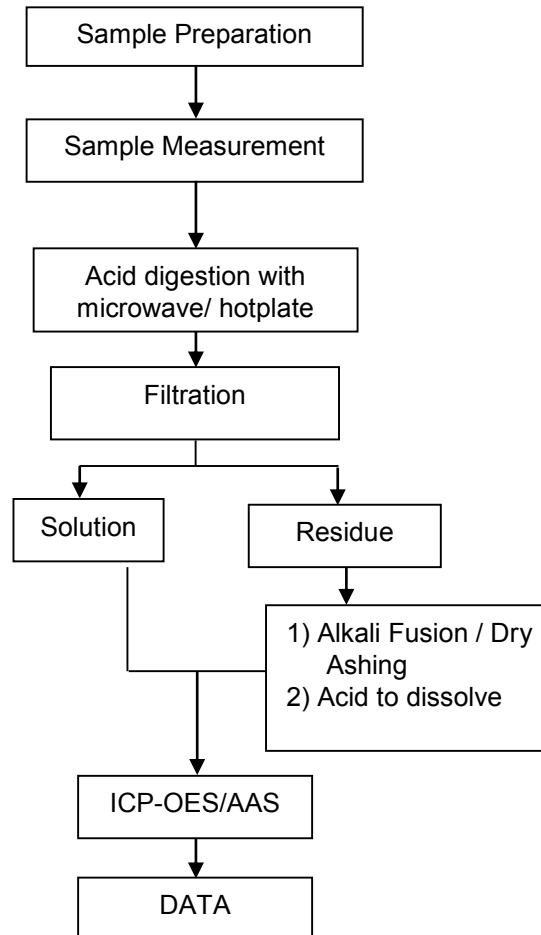
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Elements Testing Flow Chart

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



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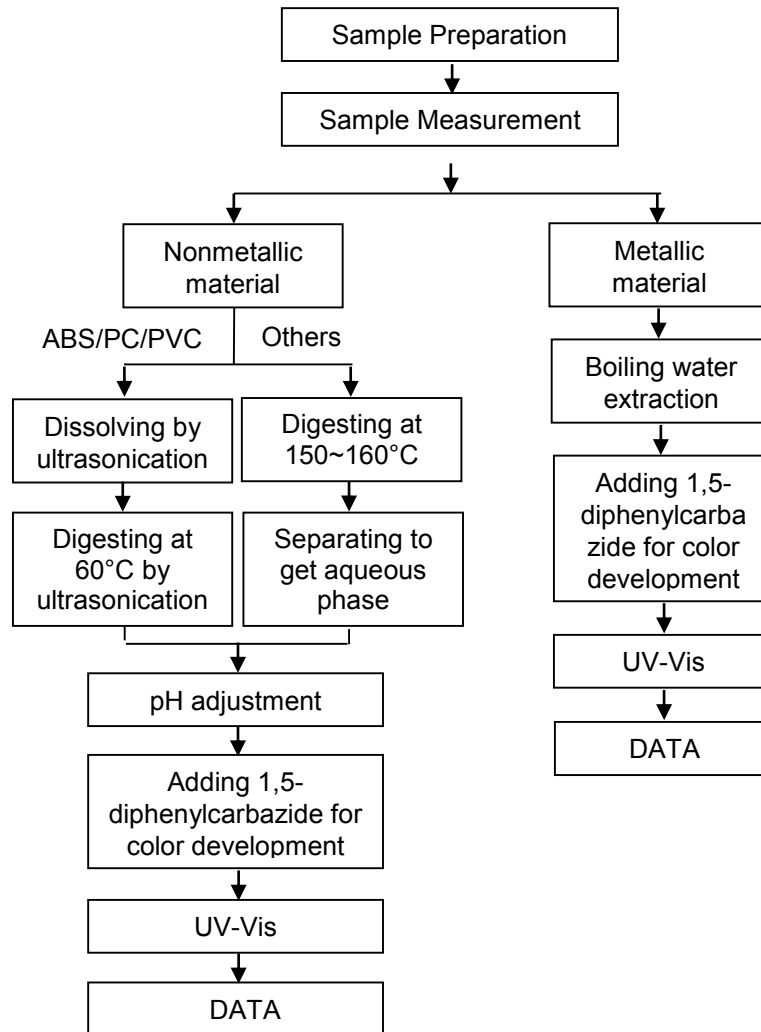
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Hexavalent Chromium (Cr(VI)) Testing Flow Chart



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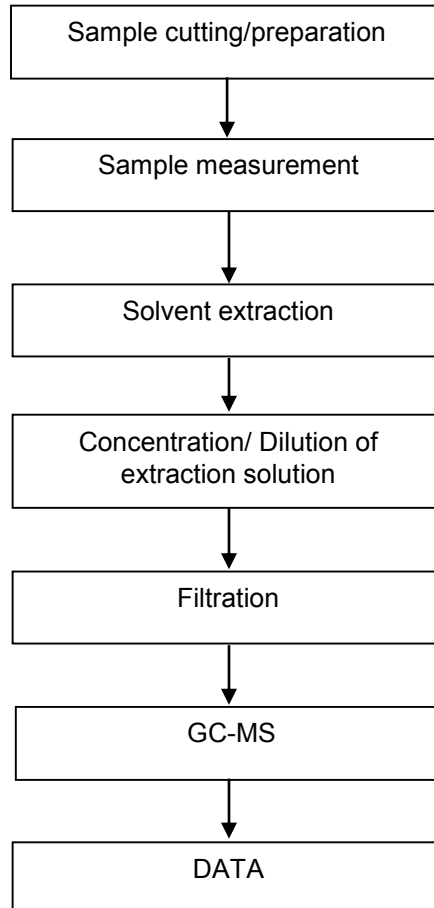
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PBB/PBDE Testing Flow Chart



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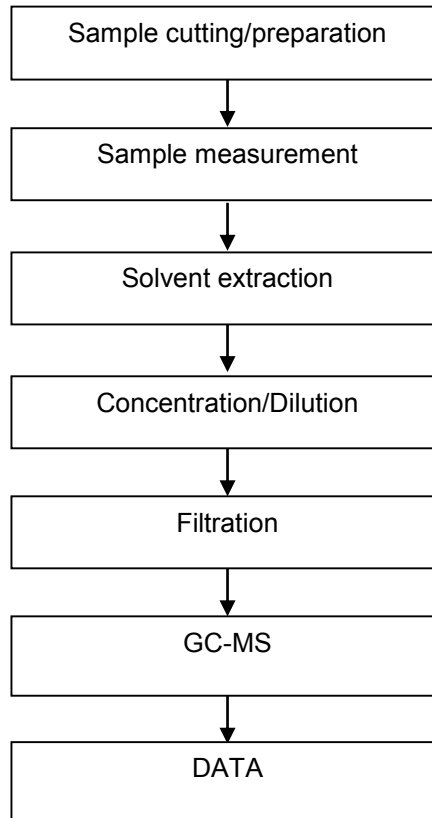
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Phthalates Testing Flow Chart



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No.: CANEC23010851105

Date: Oct 11, 2023

Page 1 of 26

Client Name: GOLDENMAX INTERNATIONAL TECHNOLOGY(ZHUHAI) LTD.

Client Address: NO.8 QINSHI ROAD, QINSHI TECHNOLOGY & INDUSTRIAL PARK, SANZAO TOWN, JINWAN DISTRICT, ZHUHAI CITY, P.R.CHINA

Sample Name: FR-4.0 CCL&insulating board

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

SGS Job No.: GZP23-014970

Sample Receiving Date: Sep 27, 2023

Testing Period: Sep 27, 2023 ~ Oct 11, 2023

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 (PBBs), Polybrominated diphenyl ethers (PBDEs), Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP) and Diisobutyl phthalate (DIBP)	Pass
Targeted 221 Perfluoroalkyl and polyfluoroalkyl substances (PFAS) Content	See Results
Tetrabromobisphenol A (TBBP-A)	See Results
Polycyclic Aromatic Hydrocarbons (PAHs)	See Results
Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified (α -HBCDD, β -HBCDD, γ -HBCDD)	See Results
Phthalates	See Results
Element(s)	See Results
Red Phosphorus	See Results
Sulfur	See Results

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

Arsene Ye

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Approved Signatory



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Test Report

No.: CANEC23010851105

Date: Oct 11, 2023

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Test Requirement	Conclusion
Asbestos	See Results

Test Result(s):

Test Part Description:

SN ID	Sample No.	SGS Sample ID	Description
SN1	A1	CAN23-0108511-0001.C001	Double-side copper-clad laminate

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 (PBBs), Polybrominated diphenyl ethers (PBDEs), 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, UV-Vis and GC-MS.

Test Item(s)	Limit	Unit(s)	MDL	A1
Cadmium(Cd)	100	mg/kg	2	ND
Lead (Pb)	1000	mg/kg	2	8
Mercury (Hg)	1000	mg/kg	2	ND
Hexavalent Chromium (Cr(VI))	1000	mg/kg	8	ND
Polybromobiphenyl (PBBs)	1000	mg/kg	-	ND
Monobromobiphenyl (MonoBB)	-	mg/kg	5	ND
Dibromobiphenyl (DiBB)	-	mg/kg	5	ND
Tribromobiphenyl (TriBB)	-	mg/kg	5	ND
Tetrabromobiphenyl (TetraBB)	-	mg/kg	5	ND
Pentabromobiphenyl (PentaBB)	-	mg/kg	5	ND
Hexabromobiphenyl (HexaBB)	-	mg/kg	5	ND
Heptabromobiphenyl (HeptaBB)	-	mg/kg	5	ND
Octabromobiphenyl (OctaBB)	-	mg/kg	5	ND
Nonabromobiphenyl (NonaBB)	-	mg/kg	5	ND
Decabromobiphenyl (DecaBB)	-	mg/kg	5	ND
Polybromodiphenyl ether(PBDEs)	1000	mg/kg	-	ND
Monobromodiphenylether (MonoBDE)	-	mg/kg	5	ND
Dibromodiphenylether (DiBDE)	-	mg/kg	5	ND
Tribromodiphenylether (TriBDE)	-	mg/kg	5	ND
Tetrabromodiphenylether (TetraBDE)	-	mg/kg	5	ND
Pentabromodiphenylether (PentaBDE)	-	mg/kg	5	ND
Hexabromodiphenylether (HexaBDE)	-	mg/kg	5	ND
Heptabromodiphenylether (HeptaBDE)	-	mg/kg	5	ND
Octabromodiphenylether (OctaBDE)	-	mg/kg	5	ND
Nonabromodiphenylether (NonaBDE)	-	mg/kg	5	ND



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Test Item(s)	Limit	Unit(s)	MDL	A1
Decabromodiphenylether (DecaBDE)	-	mg/kg	5	ND
Dibutyl Phthalate(DBP)	1000	mg/kg	50	ND
Benzyl Butyl 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) 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.

Targeted 221 Perfluoroalkyl and polyfluoroalkyl substances (PFAS) Content

Test Method: With reference to CEN/TS 15968:2010, analysis was performed by LC-MS or LC-MS/MS and GC-MS.

Test Item(s)	CAS No.	Unit(s)	MDL	A1
PFOS, its salts and related compounds				
Perfluorooctane sulfonates (PFOS) ^{Note (1)}	1763-23-1	mg/kg	0.010	ND
N-ethylperfluoro-1-octanesulfonamide (N-EtFOSA)	4151-50-2	mg/kg	0.010	ND
N-methylperfluoro-1-octanesulfonamide (N-MeFOSA)	31506-32-8	mg/kg	0.010	ND
2-(N-ethylperfluoro-1-octanesulfonamido)-ethanol (N-EtFOSE)	1691-99-2	mg/kg	0.010	ND
2-(N-methylperfluoro-1-octanesulfonamido)-ethanol (N-MeFOSE)	24448-09-7	mg/kg	0.010	ND
Perfluorooctane Sulfonamide (PFOSA) Note (25)	754-91-6	mg/kg	0.010	ND
Sum of Perfluorooctane sulfonates (PFOS) and its derivatives	-	mg/kg	-	ND
PFOA, its salts				
Perfluorooctanoic acid (PFOA) ^{Note (2)}	335-67-1	mg/kg	0.010	ND
PFOA-related compounds				
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS) ^{Note (3)}	39108-34-4	mg/kg	0.010	ND
Methyl perfluorooctanoate (Me-PFOA)	376-27-2	mg/kg	0.1	ND
Ethyl perfluorooctanoate (Et-PFOA)	3108-24-5	mg/kg	0.1	ND
1H,1H,2H,2H-Perfluoro-1-decanol (8:2 FTOH) ^{Note (3)}	678-39-7	mg/kg	0.1	ND
1H,1H,2H,2H-Perfluorodecyl acrylate (8:2 FTA) ^{Note (3)}	27905-45-9	mg/kg	0.1	ND
1H,1H,2H,2H-Perfluorodecyl methacrylate (8:2 FTMA) ^{Note (3)}	1996-88-9	mg/kg	0.1	ND
Perfluoro-1-iodooctane (PFOI)	507-63-1	mg/kg	0.1	ND



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Test Item(s)	CAS No.	Unit(s)	MDL	A1
2H,2H-Perfluorodecane Acid (H2PFDA/8:2 FTCA) ^{Note (3), Note (11)}	27854-31-5	mg/kg	0.010	ND
Sum of PFOA-related compounds	-	mg/kg	-	ND
C9-C14 PFCA, their salts				
Perfluorononane Acid (PFNA) ^{Note (4)}	375-95-1	mg/kg	0.010	ND
Perfluorodecane Acid (PFDA) ^{Note (4)}	335-76-2	mg/kg	0.010	ND
Perfluoroundecanoic Acid (PFUnDA) ^{Note (22)}	2058-94-8	mg/kg	0.010	ND
Perfluorododecanoic Acid (PFDoDA) ^{Note (4)}	307-55-1	mg/kg	0.010	ND
Perfluorotridecanoic Acid (PFTTrDA) ^{Note (24)}	72629-94-8	mg/kg	0.010	ND
Perfluorotetradecanoic Acid (PFTDA)	376-06-7	mg/kg	0.010	ND
Perfluoro-3,7-dimethyloctanoic Acid (PF-3,7-DMOA)	172155-07-6	mg/kg	0.010	ND
Sum of C9-C14 PFCA, their salts	-	mg/kg	-	ND
C9-C14 PFCA-related substances				
Perfluorodecane Sulfonate (PFDS) ^{Note (10)}	335-77-3	mg/kg	0.010	ND
1H,1H,2H,2H-Perfluoro-1-dodecanol (10:2 FTOH)	865-86-1	mg/kg	0.1	ND
1H,1H,2H,2H-Perfluorododecylacrylate (10:2 FTA)	17741-60-5	mg/kg	0.1	ND
1-Iodo-1H,1H,2H,2H-perfluorodecane (8:2 FTI)	2043-53-0	mg/kg	0.1	ND
1H,1H,2H,2H-Perfluorododecyltriethoxysilane (8:2 FTSi(OC ₂ H ₅) ₃)	101947-16-4	mg/kg	0.1	ND
2H,2H,3H,3H-Perfluoroundecanoic acid (H ₄ PFUnDA/ 8:3 FTCA) ^{Note (12)}	34598-33-9	mg/kg	0.010	ND
1H,1H,2H,2H-Perfluorododecyl methacrylate (10:2 FTMA)	2144-54-9	mg/kg	0.1	ND
1H,1H,2H,2H-perfluorotetradecan-1-ol (12:2 FTOH)	39239-77-5	mg/kg	0.1	ND
1H,1H,2H,2H-Perfluorododecane sulfonic acid (10:2 FTS)	120226-60-0	mg/kg	0.010	ND
1,1,2,2-Tetrahydroperefluorododecyl iodide (10:2 FTI)	2043-54-1	mg/kg	0.1	ND
1H,1H,2H,2H-Perfluorotetradecyl iodide (12:2 FTI)	30046-31-2	mg/kg	0.1	ND
1H,1H,2H,2H-Perfluorodecanesulfonic acid (8:2 FTS) ^{Note (3)}	39108-34-4	mg/kg	0.010	ND
1H,1H,2H,2H-Perfluoro-1-decanol (8:2 FTOH) ^{Note (3)}	678-39-7	mg/kg	0.1	ND
1H,1H,2H,2H-Perfluorodecyl acrylate (8:2 FTA) ^{Note (3)}	27905-45-9	mg/kg	0.1	ND
1H,1H,2H,2H-Perfluorodecyl methacrylate (8:2 FTMA) ^{Note (3)}	1996-88-9	mg/kg	0.1	ND
2H,2H-Perfluorodecane Acid (H2PFDA/8:2 FTCA) ^{Note (3), Note (11)}	27854-31-5	mg/kg	0.010	ND
Sum of C9-C14-related substances	-	mg/kg	-	ND



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Test Item(s)	CAS No.	Unit(s)	MDL	A1
PFHxS, its salts				
Perfluorohexane Sulfonate (PFHxS) ^{Note (7)}	355-46-4	mg/kg	0.010	ND
PFHxS-related compounds				
N-Methylperfluoro-1-hexanesulfonamide (N-Me-PFHxSA)	68259-15-4	mg/kg	0.010	ND
Perfluorohexane sulfonamide (PFHxSA)	41997-13-1	mg/kg	0.010	ND
N-[3-(dimethylamino)propyl]tridecafluorohexanesulphonamide (N-AP-FHxSA)	50598-28-2	mg/kg	0.010	ND
2-[methyl[(tridecafluorohexyl)sulphonyl]amino]ethyl acrylate)) (N-MeFHSEA)	67584-57-0	mg/kg	0.5	ND
Other PFAS				
Perfluorobutane Acid (PFBA) ^{Note (13)}	375-22-4	mg/kg	0.010	ND
Perfluorobutane Sulfonate (PFBS) ^{Note (5)}	375-73-5	mg/kg	0.010	ND
1,1,2,2,3,3,4,4,4-nonafluoro-N-(2-hydroxyethyl)-N-methylbutane-1-sulphonamide (PFBS-NC ₃ H ₈ O)	34454-97-2	mg/kg	0.010	ND
Perfluoropentane Acid (PFPeA) ^{Note (17)}	2706-90-3	mg/kg	0.010	ND
Perfluorohexane Acid (PFHxA) ^{Note (6)}	307-24-4	mg/kg	0.010	ND
Perfluoroheptane Acid (PFHpA) ^{Note (14)}	375-85-9	mg/kg	0.010	ND
Perfluoroheptanesulfonic Acid (PFHpS) ^{Note (8)}	375-92-8	mg/kg	0.010	ND
7H-Dodecanefluoroheptane Acid (7HPFHpA)	1546-95-8	mg/kg	0.010	ND
1H,1H,2H,2H-Perfluorooctanesulphonic acid (6:2 FTS) ^{Note (26)}	27619-97-2	mg/kg	0.010	ND
1H,1H,2H,2H-Perfluorooctylacrylate (6:2 FTA)	17527-29-6	mg/kg	0.1	ND
1H,1H,2H,2H-Perfluoro-1-hexanol (4:2 FTOH)	2043-47-2	mg/kg	0.1	ND
1H,1H,2H,2H-Perfluoro-1-octanol (6:2 FTOH)	647-42-7	mg/kg	0.1	ND
2,3,3,3-tetrafluoro-2-(heptafluoropropoxy) propionic acid (HFPO-DA) ^{Note (9)}	13252-13-6	mg/kg	0.010	ND
Perfluorooctane sulfonamidoacetic Acid (FOSAA)	2806-24-8	mg/kg	0.010	ND
N-Methylperfluoro-1-octanesulfonamidoacetic Acid (N-MeFOSAA)	2355-31-9	mg/kg	0.010	ND
N-Ethylperfluorooctane sulfonamidoacetic Acid (N-EtFOSAA)	2991-50-6	mg/kg	0.010	ND
Perfluoropentane sulfonic acid (PFPeS) ^{Note (18)}	2706-91-4	mg/kg	0.010	ND
Perfluoro nonane sulfonic acid (PFNS) ^{Note (19)}	68259-12-1	mg/kg	0.010	ND
Perfluoroundecane sulfonic acid (PFUnDS) ^{Note (16)}	749786-16-1	mg/kg	0.010	ND



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Perfluorododecanesulfonic acid (PFDoDS) ^{Note (20)}	79780-39-5	mg/kg	0.010	ND
Perfluorotridecane sulfonic acid (PFTrDS) ^{Note (21)}	791563-89-8	mg/kg	0.010	ND
1H,1H,2H,2H-Perfluorohexanesulfonic acid (4:2 FTS)	757124-72-4	mg/kg	0.010	ND
2-Perfluorohexyl ethanoic acid (6:2 FTCA)	53826-12-3	mg/kg	0.010	ND
3-Perfluoropentyl propanoic acid (5:3 FTCA)	914637-49-3	mg/kg	0.010	ND
Perfluorohexadecanoic Acid (PFHxDA)	67905-19-5	mg/kg	0.010	ND
Perfluorooctadecanoic Acid (PFODA)	16517-11-6	mg/kg	0.010	ND
bis(3,3,4,4,5,5,6,6,7,7,8,8,9,9,10,10,10-heptafluorodecyl) hydrogen phosphate (8:2diPAP) ^{Note (15)}	678-41-1	mg/kg	0.010	ND
1H,1H,2H,2H-Perfluorooctyl methacrylate (6:2 FTMA)	2144-53-8	mg/kg	0.1	ND
4,8-Dioxa-3H-perfluorononanoic acid (ADONA)	919005-14-4	mg/kg	0.010	ND
Perfluoro-3-methoxypropanoic acid (PFMPA)	377-73-1	mg/kg	0.010	ND
Perfluoro-4-methoxybutanoic acid (PFMBA)	863090-89-5	mg/kg	0.010	ND
Nonafluoro-3,6-dioxaheptanoic acid (NFDHA)	151772-58-6	mg/kg	0.010	ND
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid (9CI-PF3ONS)	756426-58-1	mg/kg	0.010	ND
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid (11CI-PF3OUdS)	763051-92-9	mg/kg	0.010	ND
Perfluoro(2-ethoxyethane)sulfonic acid (PFEEESA)	113507-82-7	mg/kg	0.010	ND
3-Perfluoropropyl propanoic acid (3:3 FTCA)	356-02-5	mg/kg	0.010	ND
3-Perfluoroheptyl propanoic acid (7:3 FTCA)	812-70-4	mg/kg	0.010	ND
Perfluoropentadecanoic Acid (PFPeDA)	141074-63-7	mg/kg	0.1	ND
1H,1H,2H,2H-Perfluorohexyl methacrylate (4:2 FTMA)	1799-84-4	mg/kg	0.1	ND
2-(N-ethylperfluorooctanesulfamido) ethyl acrylate (EtFOSAC)	423-82-5	mg/kg	0.1	ND
1H,1H,2H-Heptafluoro-1-decene (PFDE)	21652-58-4	mg/kg	0.1	ND
Perfluorooctyl triethoxysilane (POTS)	51851-37-7	mg/kg	0.1	ND
Perfluorododecyl iodide (PFDoDI)	307-60-8	mg/kg	0.1	ND
Perfluorodecyl iodide (PFDI)	423-62-1	mg/kg	0.1	ND
11H-Perfluoroundecanoic acid (11H-PFUnDA) ^{Note (23)}	1765-48-6	mg/kg	0.1	ND

Notes:



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- (1) PFOS refer to its salts/derivative including

PFOS-K	CAS No.: 2795-39-3
PFOS-Li	CAS No.: 29457-72-5
PFOS-Na	CAS No.: 4021-47-0
PFOS-NH ₄	CAS No.: 29081-56-9
PFOS-NH ₂ (C ₂ H ₄ OH) ₂	CAS No.: 70225-14-8
PFOS-N(C ₂ H ₅) ₄	CAS No.: 56773-42-3
PFOS-N(C ₁₀ H ₂₁) ₂ (CH ₃) ₂	CAS No.: 251099-16-8
POSF	CAS No.: 307-35-7
POSF-Mg	CAS No.: 91036-71-4
- (2) PFOA refer to its salts/derivative including

PFOA-Na	CAS No.: 335-95-5
PFOA-K	CAS No.: 2395-00-8
PFOA-Ag	CAS No.: 335-93-3
PFOA-F	CAS No.: 335-66-0
APFO	CAS No.: 3825-26-1
PFOA-Li	CAS No.: 17125-58-5
- (3) PFAS classified as both PFOA-related compounds and C9-C14 PFCA-related substances.

8:2 FTS refer to its salts including	
8:2 FTS-K	CAS No.: 438237-73-1
8:2 FTS-NH ₄	CAS No.: 149724-40-3
8:2 FTS-Na	CAS No.: 27619-96-1
- (4) PFNA refer to its salts including

PFNA-Na	CAS No.: 21049-39-8
PFNA-NH ₄	CAS No.: 4149-60-4
PFNA-K	CAS No.: 21049-38-7
PFNA-Li	CAS No.: 60871-92-3
PFNA-Ag	CAS No.: 7358-16-9

PFDA refer to its salts including	
PFDA-Na	CAS No. 3830-45-3
PFDA-NH ₄	CAS No: 3108-42-7
PFDA-K	CAS No: 51604-85-4
PFDA-Ag	CAS No: 5784-82-7
PFDA-Li	CAS No: 84743-32-8

PFDODA refer to its salts including	
PFDODA-NH ₄	CAS No: 3793-74-6
PFDODA-Na	CAS No: 60872-01-7
- (5) PFBS refers to its salts/derivative including

PFBS-K	CAS No.: 29420-49-3
PFBS-H ₂ O	CAS No.: 59933-66-3
PFBS-Li	CAS No.: 131651-65-5
TPS-PFBS	CAS No.: 144317-44-2
PFBS-S(CH ₃) ₂ C ₆ H ₅	CAS No.: 220133-51-7
PFBS-P(C ₄ H ₉) ₄	CAS No.: 220689-12-3
PFBS-N(C ₂ H ₅) ₄	CAS No.: 25628-08-4
PFBS-F	CAS No.: 375-72-4
PFBS-NC ₄ H ₉ O	CAS No.: 503155-89-3
PFBS-Mg	CAS No.: 507453-86-3
PFBS-NH ₄	CAS No.: 68259-10-9
PFBS-SC ₁₈ H ₂₃ O	CAS No.: 209482-18-8
PFBS-Cl	CAS No.: 2991-84-6
PFBS-Na	CAS No.: 60453-92-1



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PFBS-I(C ₆ H ₄) ₂ (C ₄ H ₉) ₂	CAS No.: 194999-85-4
PFBS-NH(C ₂ H ₅ O) ₂	CAS No.: 70225-18-2
(6) PFHxA refers to its salt including	
APFHx	CAS No.: 21615-47-4
PFHxA-Na	CAS No.: 2923-26-4
PFHxA-K	CAS No.: 3109-94-2
PFHxA-F	CAS No.: 355-38-4
PFHxA-Ag	CAS No.: 336-02-7
PFHxA-Li	CAS No.: 90430-61-8
(7) PFHxS refers to its salts including	
PFHxS-Na	CAS No.: 82382-12-5
PFHxS-K	CAS No.: 3871-99-6
PFHxS-Li	CAS No.: 55120-77-9
PFHxS-NH ₄	CAS No.: 68259-08-5
PFHxS-BTPP	CAS No.: 1000597-52-3
PFHxS-N(C ₄ H ₉) ₄	CAS No.: 108427-54-9
PFHxS-N(C ₂ H ₅) ₄	CAS No.: 108427-55-0
PFHxS-NC ₄ H ₉	CAS No.: 1187817-57-7
PFHxS-(NC ₁₀ H ₁₄) ₃ C ₅ H ₄	CAS No.: 1310480-24-0
PFHxS-(NC ₈ H ₁₀) ₂ C ₁₃ H ₁₂	CAS No.: 1310480-27-3
PFHxS-(NC ₈ H ₁₀) ₂ C ₁₇ H ₁₂	CAS No.: 1310480-28-4
PFHxS-C ₄₂ H ₇₀ O ₃₅	CAS No.: 1329995-45-0
PFHxS-C ₄₈ H ₈₀ O ₄₀	CAS No.: 1329995-69-8
TPS-PFHxS	CAS No.: 144116-10-9
PFHxS-C ₄₄ H ₃₇ N ₂ O ₂	CAS No.: 1462414-59-0
PFHxS-I(C ₆ H ₅) ₂	CAS No.: 153443-35-7
PFHxS-TMA	CAS No.: 189274-31-5
PFHxS-NH ₂ (CH ₃) ₃	CAS No.: 202189-84-2
PFHxS-I(C ₆ H ₄) ₂ (C ₄ H ₉) ₂	CAS No.: 213740-81-9
PFHxS-Ga	CAS No.: 341035-71-0
PFHxS-S(C ₇ H ₇) ₂ C ₆ H ₅	CAS No.: 341548-85-4
PFHxS-Sc	CAS No.: 350836-93-0
PFHxS-Nd	CAS No.: 41184-65-0
PFHxS-Y	CAS No.: 41242-12-0
PFHxS-S ₃ (C ₆ H ₅) ₄ (C ₆ H ₄) ₂	CAS No.: 421555-73-9
PFHxS-I(C ₆ H ₄) ₂ (C ₅ H ₁₁) ₂	CAS No.: 421555-74-0
PFHxS-F	CAS No.: 423-50-7
PFHxS-S(C ₆ H ₄) ₃ (C ₄ H ₉) ₃	CAS No.: 425670-70-8
PFHxS-Zn	CAS No.: 70136-72-0
PFHxS-NH(C ₂ H ₅ O) ₂	CAS No.: 70225-16-0
PFHxS-N(C ₂ H ₅) ₃	CAS No.: 72033-41-1
PFHxS-I(C ₆ H ₄) ₂ (C ₄ H ₉) ₂	CAS No.: 866621-50-3
PFHxS-S(C ₆ H ₅) ₂ C ₇ H ₇	CAS No.: 910606-39-2
PFHxS-S(C ₆ H ₅) ₂ C ₁₀ H ₉ O ₂	CAS No.: 911027-68-4
PFHxS-Cs	CAS No.: 92011-17-1
PFHxS-SC ₂₈ H ₃₁ O ₄	CAS No.: 928049-42-7
PFHxS-Cl	CAS No.: 55591-23-6
PFHxS-Sulfonium, propenoate polymer	CAS No.: 911027-69-5
(8) PFHpS refers to its salts including	
PFHpS-Na	CAS No.: 21934-50-9
PFHpS-K	CAS No.: 60270-55-5
PFHpS-NH ₄	CAS No.: 68259-07-4



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PFHpS-Li	CAS No.: 117806-54-9
(9) HFPO-DA refers to its salts including	
HFPO-DA-NH ₄	CAS No.: 62037-80-3
HFPO-DA-K	CAS No.: 67118-55-2
HFPO-DA-F	CAS No.: 2062-98-8
(10) PFDS refer to its salts including	
PFDS-Na	CAS No.: 2806-15-7
PFDS-K	CAS No.: 2806-16-8
PFDS-NH ₄	CAS No.: 67906-42-7
(11) H ₂ PFDA / 8:2 FTCA refer to its salt/derivative including	
8:2 FTCA-P(C ₄ H ₉) ₄	CAS No.: 882489-14-7
(12) H ₄ PFUnDA / 8:3 FTCA refer to its salts including	
H ₄ PFUnDA-K	CAS No.: 83310-58-1
(13) PFBA refers to its salts including	
PFBA-NH ₄	CAS No.: 10495-86-0
PFBA-Na	CAS No.: 2218-54-4
PFBA-K	CAS No.: 2966-54-3
PFBA-Ag	CAS No.: 3794-64-7
PFBA-Li	CAS No.: 4146-76-3
(14) PFHpA refers to its salts including	
PFHpA-Na	CAS No.: 20109-59-5
PFHpA-K	CAS No.: 21049-36-5
PFHpA-NH ₄	CAS No.: 6130-43-4
PFHpA-Cs	CAS No.: 171198-24-6
PFHpA-Ag	CAS No.: 424-05-5
PFHpA-Li	CAS No.: 60871-90-1
(15) 8:2diPAP refers to its salts including	
8:2diPAP-Na	CAS No.: 114519-85-6
(16) PFUnDS refers to its salts including	
PFUnDS-Na	CAS No.: 441296-91-9 (anion)
(17) PFPeA refers to its salts including	
PFPeA-Na	CAS No.: 2706-89-0
PFPeA-K	CAS No.: 336-23-2
PFPeA-NH ₄	CAS No.: 68259-11-0
PFPeA-Li	CAS No.: 198482-22-3
PFPeA-Ag	CAS No.: 2795-30-4
(18) PFPeS refers to its salts including	
PFPeS-Na	CAS No.: 630402-22-1
PFPeS-K	CAS No.: 3872-25-1
PFPeS-NH ₄	CAS No.: 68259-09-6
(19) PFNS refers to its salts including	
PFNS-Na	CAS No.: 98789-57-2
PFNS-NH ₄	CAS No.: 17202-41-4
PFNS-K	CAS No.: 29359-39-5
(20) PFDoDS refers to its salts including	
PFDoDS-Na	CAS No.: 1260224-54-1
(21) PFTTrDS refers to its salts including	
PFTTrDS-Na	CAS No.: 174675-49-1
(22) PFUnDA refers to its salts including	
PFUnDA-Na	CAS No.: 60871-96-7
PFUnDA-NH ₄	CAS No.: 4234-23-5
PFUnDA-K	CAS No.: 30377-53-8



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- (23) 11H-PFUnDA refers to its salts including
 11H-PFUnDA-K CAS No.: 307-71-1
 11H-PFUnDA-NH₄ CAS No.: 5081-02-7
- (24) PFTrDA refers to its salts including
 PFTrDA-NH₄ CAS No.: 4288-72-6
- (25) PFOSA refers to its salts including
 PFOSA-Li CAS No.: 76752-79-9
- (26) 6:2 FTS refers to its salts including
 6:2 FTS-Na CAS No.: 27619-94-9
 6:2 FTS-K CAS No.: 59587-38-1
 6:2 FTS-NH₄ CAS No.: 59587-39-2

Tetrabromobisphenol A (TBBP-A)

Test Method: With reference to US EPA 3550C: 2007, analysis was performed by GC-MS or LC-MS or LC-MS/MS.

Test Item(s)	CAS No.	Unit(s)	MDL	A1
Tetrabromobisphenol A(TBBP-A)	79-94-7	mg/kg	5	ND

Polycyclic Aromatic Hydrocarbons (PAHs)

Test Method: With reference to AfPS GS 2019:01 PAK, analysis was performed by GC-MS.

Test Item(s)	CAS No.	Unit(s)	MDL	A1
Benzo(a)pyrene(BaP)	50-32-8	mg/kg	0.1	ND
Benzo(e)pyrene(BeP)	192-97-2	mg/kg	0.1	ND
Benzo(a)anthracene(BaA)	56-55-3	mg/kg	0.1	ND
Benzo(b)Fluoranthene(BbF)	205-99-2	mg/kg	0.1	ND
Benzo(j)fluoranthene(BjF)	205-82-3	mg/kg	0.1	ND
Benzo(k)Fluoranthene(BkF)	207-08-9	mg/kg	0.1	ND
Chrysene(CHR)	218-01-9	mg/kg	0.1	ND
Dibenzo(a,h)Anthracene(DBA)	53-70-3	mg/kg	0.1	ND
Benzo(g,h,i)perylene(BPE)	191-24-2	mg/kg	0.1	ND
Indeno(1,2,3-c,d)pyrene(IPY)	193-39-5	mg/kg	0.1	ND
Phenanthrene(PHE)	85-01-8	mg/kg	0.1	ND
Pyrene(PYR)	129-00-0	mg/kg	0.1	ND
Anthracene(ANT)	120-12-7	mg/kg	0.1	ND
Fluoranthene(FLT)	206-44-0	mg/kg	0.1	ND
Sum of Phenanthrene(PHE), Pyrene(PYR), Anthracene(ANT), Fluoranthene(FLT)	-	mg/kg	-	ND
Naphthalene(NAP)	91-20-3	mg/kg	0.1	ND
Sum of 15 PAHs	-	mg/kg	-	ND
Material Category	-	-	-	-



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Notes:

AfPS (German commission for Product Safety) : PAHs requirements

Parameter	Category 1	Category 2		Category 3	
	Materials intended to be placed in the mouth, or materials coming into long-term contact with skin (more than 30s) during the intended use -in toys according to Directive 2009/48/EC or -for the use by children ^{a,b} up to 3 years of age.	Materials not covered by category 1, coming into long-term contact (more than 30s) or short-term repetitive contact ^c with skin during the intended or foreseeable use ^d .		Materials covered neither by category 1 nor by category 2, coming into short-term contact (up to 30s) with skin during the intended or foreseeable use.	
		a. use by children	b. other consumer products	a. use by children	b. other consumer products
Benzo(a)pyrene (BaP) mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo(e)pyrene (BeP) mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo(a)anthracene (BaA) mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo(b)fluoranthene (BbF) mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo(j)fluoranthene (BjF) mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo(k)fluoranthene (BkF) mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Chrysene (CHR) mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Dibenzo(a,h)anthracene (DBA) mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo(g,h,i)perylene (BPE) mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Indeno(1,2,3-cd)pyrene (IPY) mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1



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Phenanthrene (PHE), pyrene (PYR), anthracene (ANT), fluoranthene (FLT), mg/kg	< 1 Sum	< 5 Sum	< 10 Sum	< 20 Sum	< 50 Sum
Naphthalene (NAP) mg/kg	< 1	< 2		< 10	
Sum of 15 PAHs	<1	< 5	< 10	< 20	< 50

Notes:

^a A "Child" is legally defined as a person before reaching the age of 14 years.

^b Use by children includes both active and passive contact by children.

^c Definition "short-term repetitive contact" taken from REACH Annex XVII entry 50 amendment (Regulation (EC) No.1272/2013)

^d According to the definition of the German Product Safety Act (ProdSG) (chapter 1 Article 2 No. 28) "foreseeable use" shall mean the use of a product in a manner that the person placing it on the market, has not intended, but which could be reasonably foreseeable.

Remark:

The German committee on Product Safety (AfPS) published a new PAHs document (AfPS GS 2019:01 PAK) on April 10, 2020, which will be binding for the issue of GS mark certificate from July 1, 2020.

Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified (α-HBCDD, β-HBCDD, γ-HBCDD)

Test Method: With reference to IEC 62321-9:2021, analysis was performed by GC-MS.

Test Item(s)	CAS No.	Unit(s)	MDL	A1
Hexabromocyclododecane (HBCDD) and its main diastereoisomers (α-HBCDD, β-HBCDD, γ-HBCDD)	25637-99-4, 3194-55-6, 134237-50-6, 134237-51-7, 134237-52-8	mg/kg	20	ND

Phthalates

Test Method: With reference to EN 14372:2004, analysis was performed by GC-MS.

Test Item(s)	CAS No.	Unit(s)	MDL	A1
Dibutyl Phthalate(DBP)	84-74-2	%	0.003	ND
Benzyl Butyl Phthalate(BBP)	85-68-7	%	0.003	ND
Bis-(2-ethylhexyl) Phthalate(DEHP)	117-81-7	%	0.003	ND
Diisononyl Phthalate (DINP)	28553-12-0 /68515-48-0	%	0.010	ND
Di-n-Octyl Phthalate(DNOP)	117-84-0	%	0.003	ND
Diisodecyl Phthalate (DIDP)	26761-40-0 /68515-49-1	%	0.010	ND
Diisobutyl Phthalate(DIBP)	84-69-5	%	0.003	ND



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Test Item(s)	CAS No.	Unit(s)	MDL	A1
Di-n-Hexyl Phthalate(DnHP)	84-75-3	%	0.003	ND

Element(s)

Test Method: With reference to US EPA 3052:1996, analysis was performed by ICP-OES/AAS.

Test Item(s)	Unit(s)	MDL	A1
Antimony(Sb)	mg/kg	10	ND

Red Phosphorus

Test Method: SGS In-house method (SGS-CCL-TOP-215-01), analysis was performed by PY-GC/MS/ICP-OES / GC-MS.

Test Item(s)	CAS No.	Unit(s)	MDL	A1
Red Phosphorus	7723-14-0	mg/kg	500	ND

Sulfur

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

Test Item(s)	Unit(s)	MDL	A1
Sulfur (S)	mg/kg	50	121

Asbestos

Test Method: With reference to NIOSH 9000:2015 and ISO 22262-1:2012, analysis was performed by XRD/PLM.

Test Item(s)	CAS No.	Unit(s)	MDL	A1
Actinolite	77536-66-4	%	0.1	Negative
Amosite	12172-73-5	%	0.1	Negative
Anthophyllite	77536-67-5	%	0.1	Negative
Chrysotile	12001-29-5 /132207-32-0	%	0.1	Negative
Crocidolite	12001-28-4	%	0.1	Negative
Tremolite	77536-68-6	%	0.1	Negative

Notes:

(1) Negative = the absence of asbestos, Positive = the presence of asbestos.

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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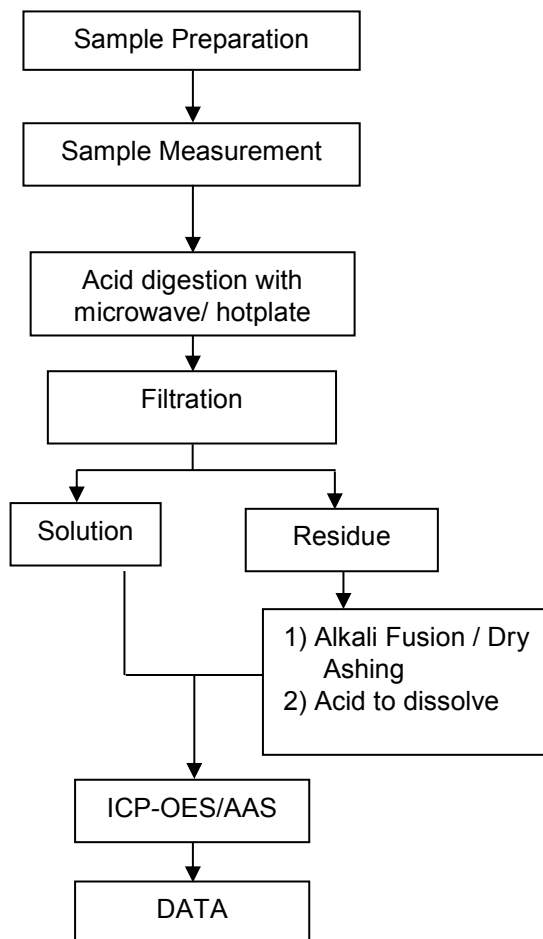
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Elements Testing Flow Chart

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



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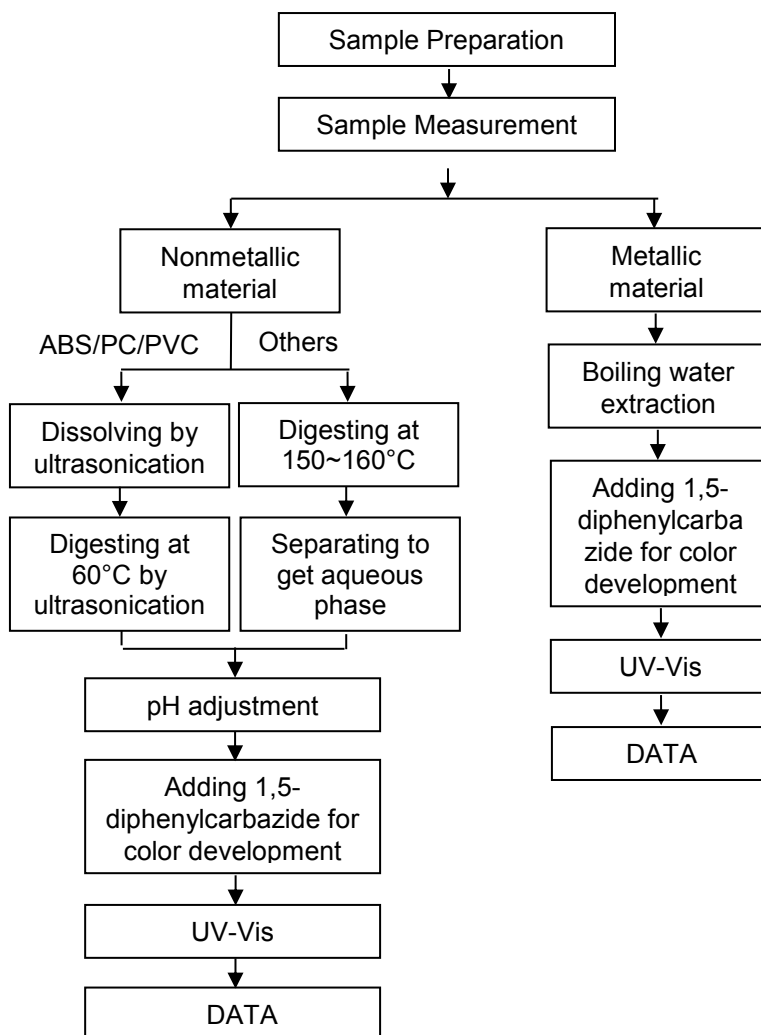
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Hexavalent Chromium (Cr(VI)) Testing Flow Chart



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Test Report

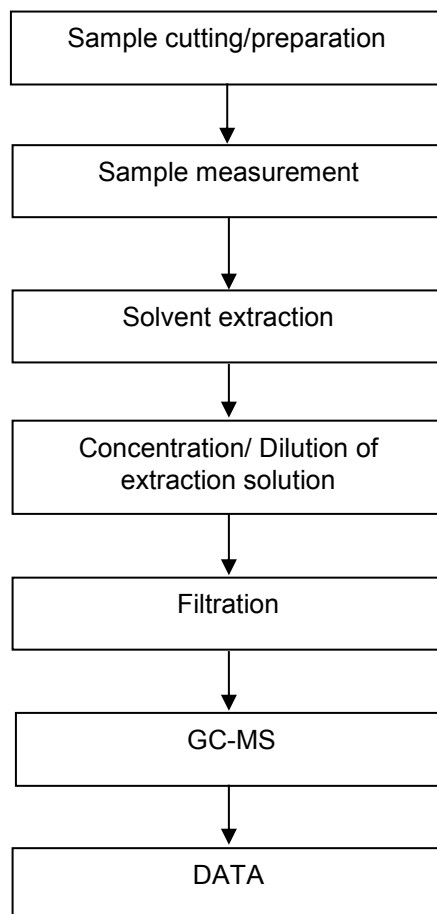
No.: CANEC23010851105

Date: Oct 11, 2023

Page 16 of 26

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PBBs/PBDEs Testing Flow Chart



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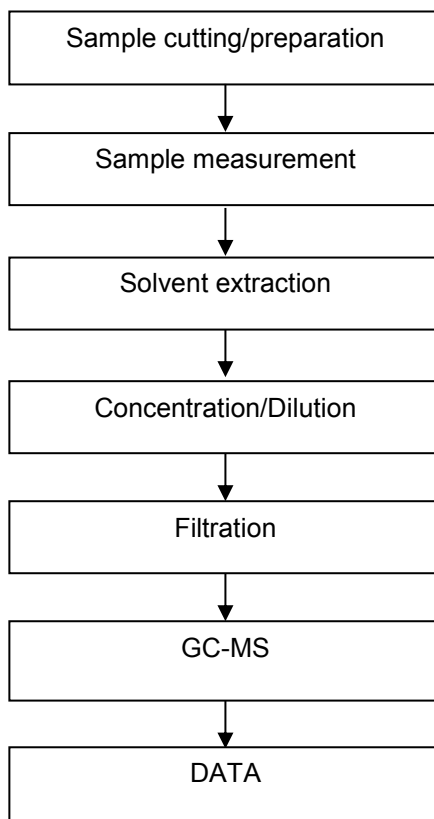
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Phthalates Testing Flow Chart



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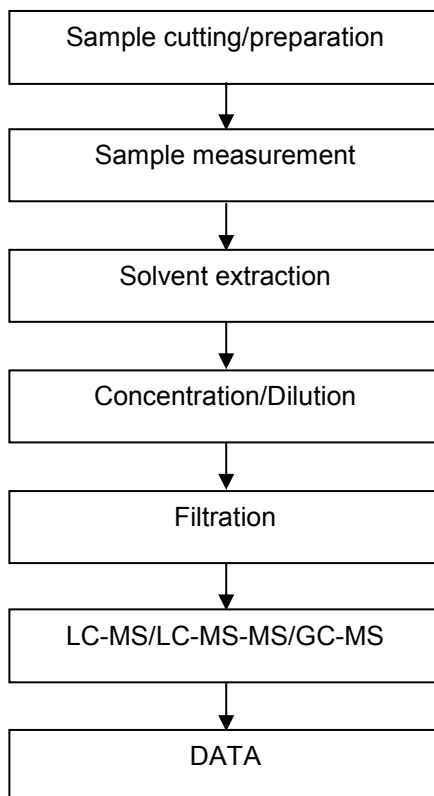
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PFASs/ PFOS/PFOA Testing Flow Chart



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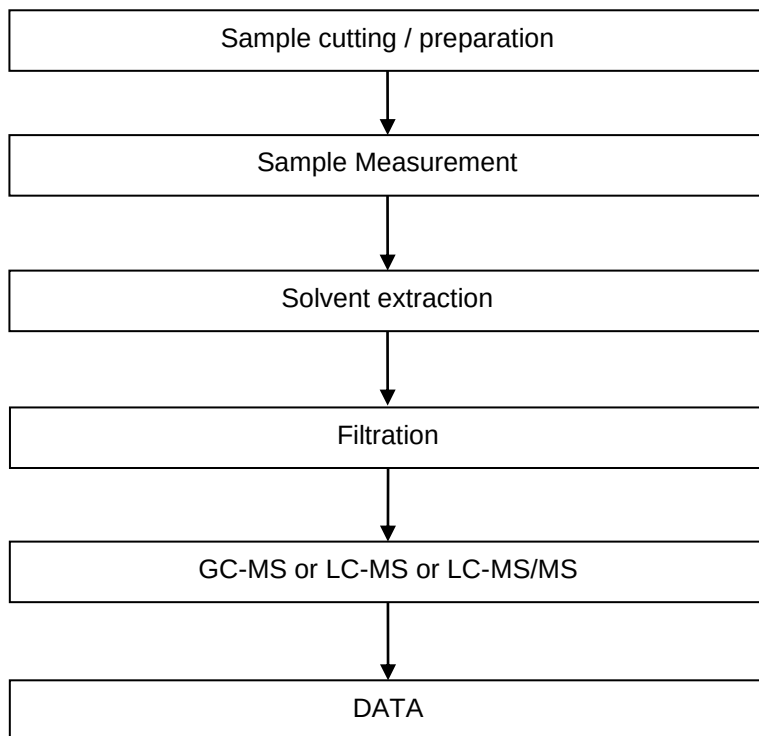
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TBBP-A Testing Flow Chart



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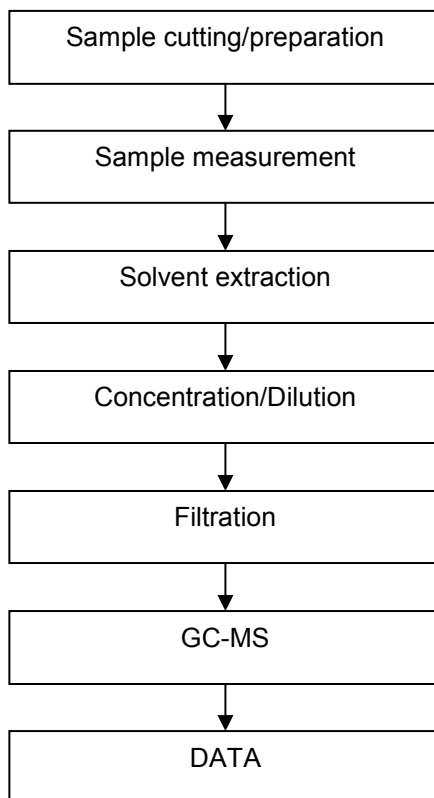
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PAHs Testing Flow Chart



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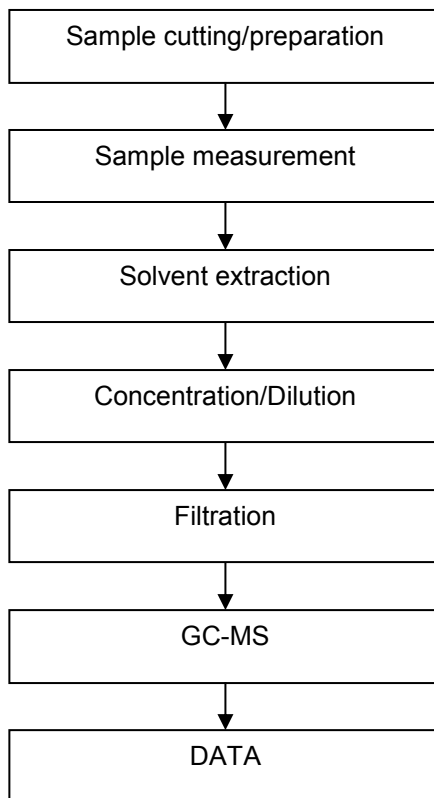
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HBCDD Testing Flow Chart



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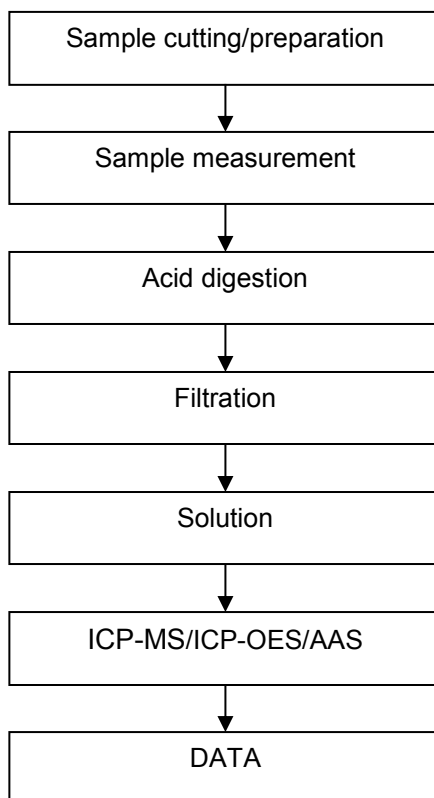
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Elements Testing Flow Chart



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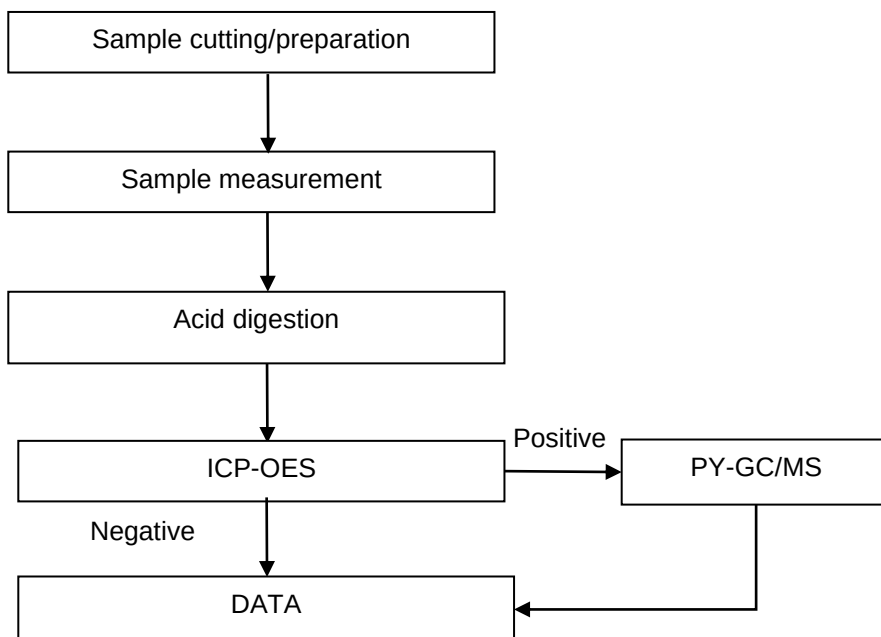
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Red phosphorus Testing Flow Chart



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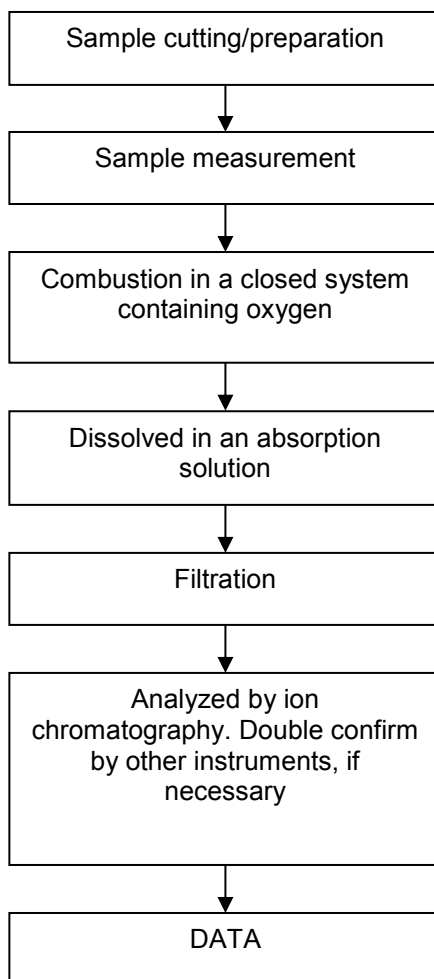
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Halogen Testing Flow Chart



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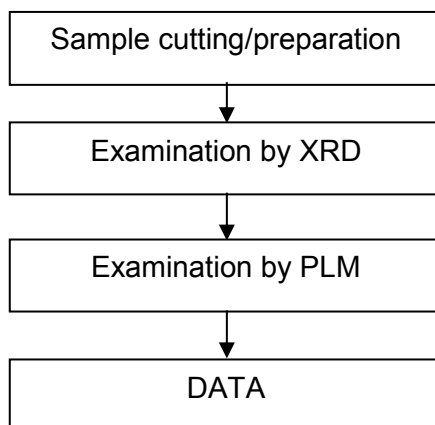
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Asbestos Testing Flow Chart



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Test Report

No.: CANEC23010851105

Date: Oct 11, 2023

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Sample Photo:



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检测报告

编号: CANPC24009508910

日期: 2024 年 05 月 17 日

第 1 页, 共 8 页

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客户地址: 广东省东莞市长安镇霄边上围三巷 1 号 2 栋 108 室

样品名称: 黄铜棒 (C3604)
型号: H59-3

以上样品及信息由客户提供。

SGS 工作编号: GZPC2405002774
收样日期: 2024 年 05 月 10 日
检测周期: 2024 年 05 月 10 日 ~ 2024 年 05 月 17 日
检测要求: 根据客户要求检测
检测方法: 见后续页。
检测结果: 见后续页。

检测要求	结论
欧盟 RoHS 指令 2011/65/EU 附录 II 的修正指令(EU) 2015/863-铅、汞、镉、六价铬、多溴联苯 (PBB)、多溴二苯醚 (PBDE)、邻苯二甲酸二(2-乙基己基)酯 (DEHP)、邻苯二甲酸丁苄酯 (BBP)、邻苯二甲酸二丁酯 (DBP)和邻苯二甲酸二异丁酯 (DIBP)	符合

通标标准技术服务有限公司广州分公司
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李嘉欣

Jessie-JX Li 李嘉欣
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检测报告

编号: CANPC24009508910

日期: 2024 年 05 月 17 日

第 2 页, 共 8 页

检测结果:

检测部件外观描述:

样品序号	样品编号	SGS 样品 ID	样品描述
SN1	002	CAN24-0095089-0001.C002	黄铜色金属

备注:

- (1) 1 mg/kg = 1 ppm = 0.0001%
- (2) MDL= 方法检测限
- (3) ND = 未检出(< MDL)
- (4) "-" = 未规定

欧盟 RoHS 指令 2011/65/EU 附录 II 的修正指令(EU) 2015/863-铅、汞、镉、六价铬、多溴联苯 (PBB)、多溴二苯醚 (PBDE)、邻苯二甲酸二(2-乙基己基)酯 (DEHP)、邻苯二甲酸丁苄酯 (BBP)、邻苯二甲酸二丁酯 (DBP)和邻苯二甲酸二异丁酯 (DIBP)

检测方法: 参考 IEC 62321-4:2013+AMD1:2017, IEC 62321-5:2013, IEC 62321-7-1:2015, IEC 62321-6:2015 和 IEC 62321-8:2017, 采用 ICP-OES/AAS, UV-Vis 和 GC-MS 进行分析。

检测项目	限值	单位	MDL	002
铅 (Pb)	1000	mg/kg	2	28333▲
汞 (Hg)	1000	mg/kg	2	ND
镉 (Cd)	100	mg/kg	2	24
六价铬 (Cr(VI))▼	-	µg/cm²	0.10	ND
多溴联苯之和 (PBB)	1000	mg/kg	-	ND
一溴联苯 (MonoBB)	-	mg/kg	5	ND
二溴联苯 (DiBB)	-	mg/kg	5	ND
三溴联苯 (TriBB)	-	mg/kg	5	ND
四溴联苯 (TetraBB)	-	mg/kg	5	ND
五溴联苯 (PentaBB)	-	mg/kg	5	ND
六溴联苯 (HexaBB)	-	mg/kg	5	ND
七溴联苯 (HeptaBB)	-	mg/kg	5	ND
八溴联苯 (OctaBB)	-	mg/kg	5	ND
九溴联苯 (NonaBB)	-	mg/kg	5	ND
十溴联苯 (DecaBB)	-	mg/kg	5	ND
多溴二苯醚之和 (PBDE)	1000	mg/kg	-	ND
一溴二苯醚 (MonoBDE)	-	mg/kg	5	ND
二溴二苯醚 (DiBDE)	-	mg/kg	5	ND
三溴二苯醚 (TriBDE)	-	mg/kg	5	ND
四溴二苯醚 (TetraBDE)	-	mg/kg	5	ND
五溴二苯醚 (PentaBDE)	-	mg/kg	5	ND
六溴二苯醚 (HexaBDE)	-	mg/kg	5	ND
七溴二苯醚 (HeptaBDE)	-	mg/kg	5	ND
八溴二苯醚 (OctaBDE)	-	mg/kg	5	ND



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检测报告

编号: CANPC24009508910

日期: 2024 年 05 月 17 日

第 3 页, 共 8 页

检测项目	限值	单位	MDL	002
九溴二苯醚 (NonaBDE)	-	mg/kg	5	ND
十溴二苯醚 (DecaBDE)	-	mg/kg	5	ND
邻苯二甲酸二(2-乙基己基)酯 (DEHP)	1000	mg/kg	50	ND
邻苯二甲酸丁苄酯 (BBP)	1000	mg/kg	50	ND
邻苯二甲酸二丁酯 (DBP)	1000	mg/kg	50	ND
邻苯二甲酸二异丁酯 (DIBP)	1000	mg/kg	50	ND

备注:

(1) 最大允许极限值引用自RoHS指令(EU) 2015/863。

(2) IEC 62321系列等同于 EN 62321系列。

(3) ▼ = a. 当六价铬的浓度高于 $0.13 \mu\text{g}/\text{cm}^2$ 时, 样品为阳性, 即含有六价铬;
b. 当六价铬的浓度为ND (低于 $0.10 \mu\text{g}/\text{cm}^2$) 时, 样品为阴性, 即未检测到六价铬;
c. 当六价铬的浓度介于 $0.10 \mu\text{g}/\text{cm}^2$ 与 $0.13 \mu\text{g}/\text{cm}^2$ 之间时, 无法直接判定是否检测到六价铬, 因不同个体的样品表面差异可能会影响测定结果。

由于未获知样品的存储条件和生产日期, 样品的六价铬检测结果仅能代表检测时样品含六价铬的状态。

备注 ▲: 根据客户提供的声明, 样品中的铅(Pb)被欧盟 RoHS 指令 2011/65/EU 豁免, 相应豁免条文(请以英文原文为准) [ANNEX III 6(c)]: 铜合金中的铅含量不得超过 4%。

更多豁免相关信息, 可以从以下链接获取:

<https://rohs.sgsonline.com.cn/PDFLinks/zh-cn/RSTS-TP-037%20RoHS%20Exemption%20%28CN%29.pdf>

除非另有说明, 参照 ILAC-G8:09/2019, 使用简单接受 ($w=0$) 的二元判定规则进行符合性判定。

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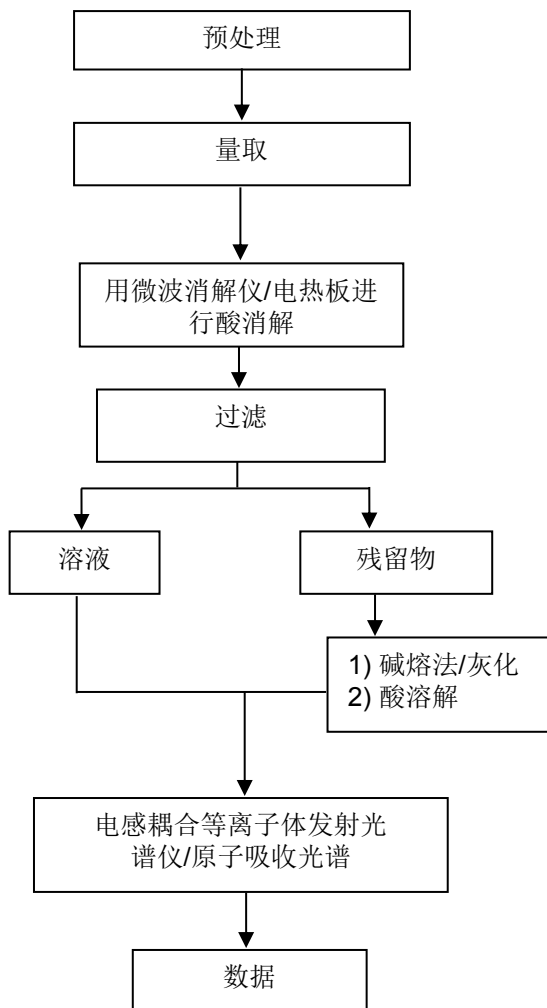
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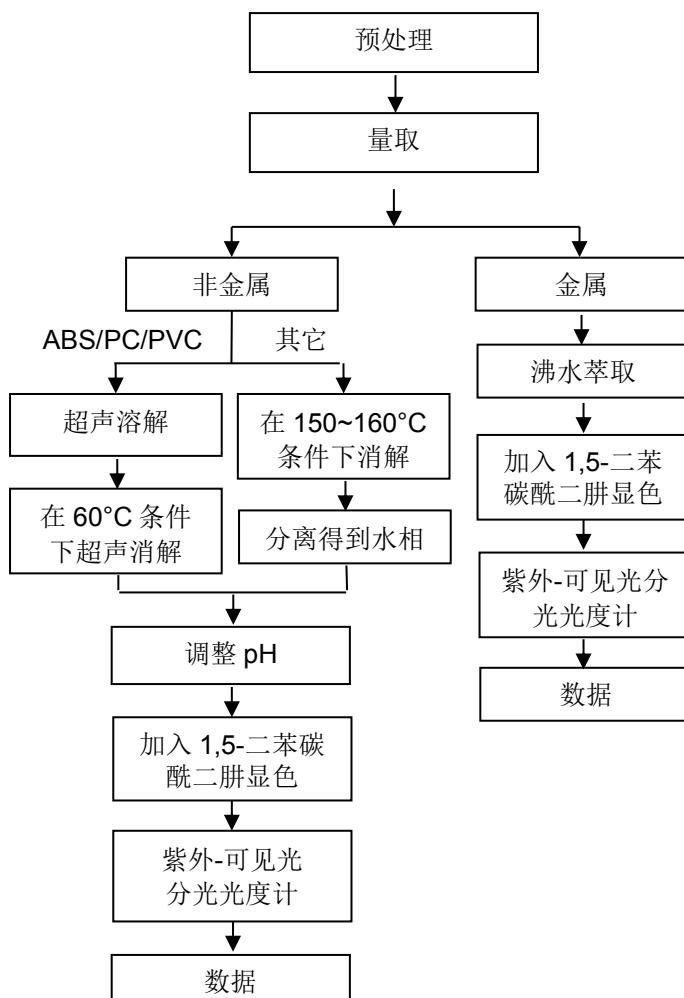
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元素检测流程图

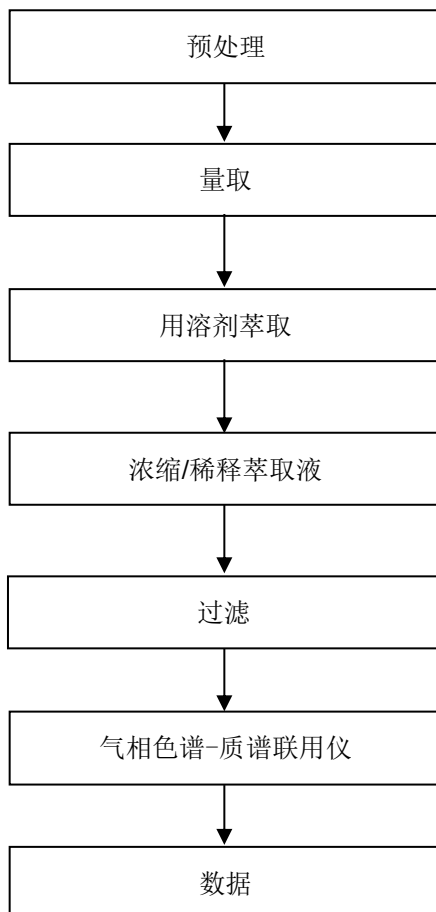
样品按照下述流程被完全消解



六价铬检测流程图



PBB/PBDE 检测流程图



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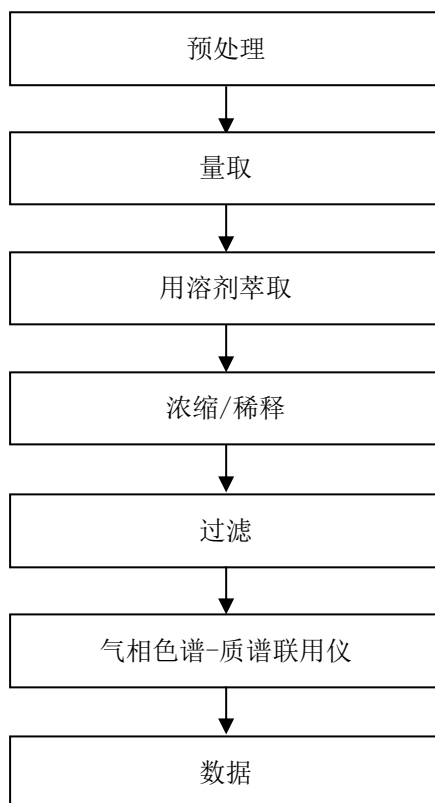
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Phthalates 检测流程图



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检测报告

编号: CANPC24009508910

日期: 2024 年 05 月 17 日

第 8 页, 共 8 页

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检测报告

编号: SZXEC23001825401

日期: 2023 年 08 月 11 日

第 1 页, 共 5 页

客户名称: 深圳市星蓝天实业有限公司
客户地址: 深圳市宝安区福永永福路 108 号

样品名称: 镀金
以上样品及信息由客户提供。

SGS 工作编号: SZP23-013391
样品接收时间: 2023 年 08 月 08 日
检测周期: 2023 年 08 月 08 日 ~ 2023 年 08 月 11 日
检测要求: 根据客户要求检测
检测方法: 见后续页。
检测结果: 见后续页。

检测要求	结论
欧盟 RoHS 指令 2011/65/EU 附录 II 的修正指令(EU) 2015/863 - 铅、汞、镉和六价铬	符合

通标标准技术服务有限公司深圳分公司
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Andy Ni 倪磊
批准签署人



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检测报告

编号: SZXEC23001825401

日期: 2023 年 08 月 11 日

第 2 页, 共 5 页

检测结果:

检测部件外观描述:

样品序号	样品编号	SGS 样品 ID	样品描述
SN1	A1	SZX23-0018254-0001.C001	带金色镀层的金属

备注:

- (1) 1 mg/kg = 1 ppm = 0.0001%
- (2) MDL = 方法检测限
- (3) ND = 未检出 (< MDL)
- (4) "-" = 未规定

欧盟 RoHS 指令 2011/65/EU 附录 II 的修正指令(EU) 2015/863 - 铅、汞、镉和六价铬

检测方法: 参考 IEC 62321-4:2013+AMD1:2017, IEC 62321-5:2013 和 IEC 62321-7-1:2015, 采用 ICP-OES 和 UV-Vis 进行分析。

检测项目	限值	单位	MDL	A1
镉 (Cd)	100	mg/kg	2	ND
铅 (Pb)	1000	mg/kg	2	10
汞 (Hg)	1000	mg/kg	2	ND
六价铬(Cr(VI)) ▼	-	µg/cm ²	0.10	ND

备注:

- (1) 最大允许极限值引用自RoHS指令(EU) 2015/863。
- (2) IEC 62321系列等同于 EN 62321 系列。
- (3) ▼ = a. 当六价铬的浓度高于0.13 µg/cm²时, 样品为阳性, 即含有六价铬;
b. 当六价铬的浓度为ND (低于0.10 µg/cm²) 时, 样品为阴性, 即未检测到六价铬;
c. 当六价铬的浓度介于0.10 µg/cm²与0.13 µg/cm²之间时, 无法直接判定是否检测到六价铬, 因不同个体的样品表面差异可能会影响测定结果。

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

除非另有说明, 参照 ILAC-G8:09/2019, 使用简单接受 ($w=0$) 的二元判定规则进行符合性判定。

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检测报告

编号: SZXEC23001825401

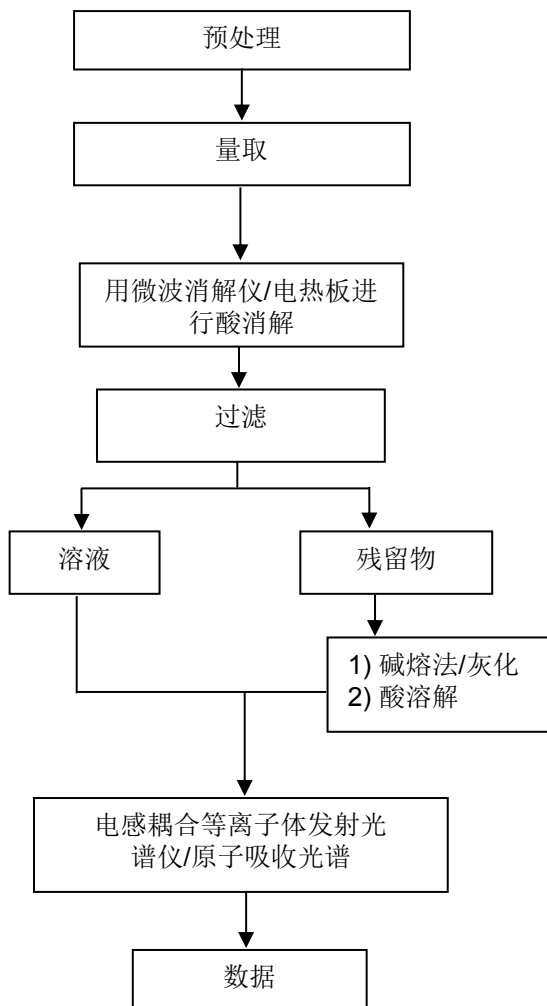
日期: 2023 年 08 月 11 日

第 3 页, 共 5 页

附件

元素检测流程图

样品按照下述流程被完全消解



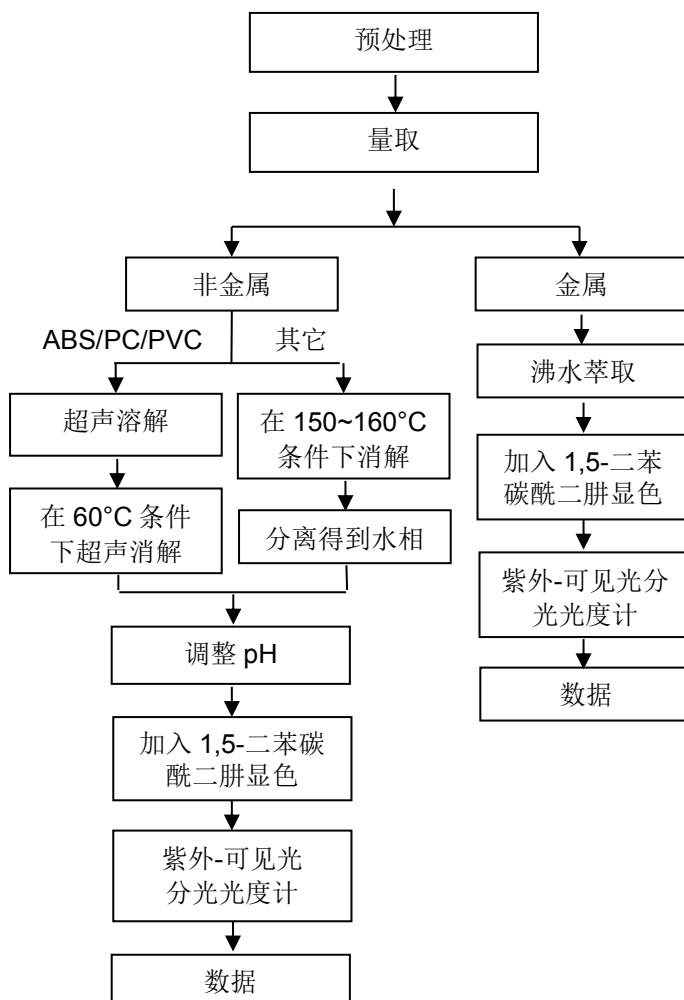
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六价铬检测流程图



检测报告

编号: SZXEC23001825401

日期: 2023 年 08 月 11 日

第 5 页, 共 5 页

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Test Report



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Report No. A2230516824101001

Company Name DANYANG HUAMEI HARDWARE PLASTIC FACTORY

shown on Report

Address JIDE DANBEI TOWN,DANYANG CITY,JIANGSU PROVINCE,CHINA

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

Sample Name PTFE plastics
Color White
Material PTFE
Sample Received Date Oct. 9, 2023
Testing Period Oct. 9, 2023 to Oct. 12, 2023

Test Requested As specified by client, to test Lead (Pb), Cadmium (Cd), Mercury (Hg), Hexavalent Chromium (Cr(VI)), Polybrominated Biphenyls (PBBs), Polybrominated Diphenyl Ethers (PBDEs), Phthalates (DBP, BBP, DEHP, DIBP) in the submitted sample(s).

Test Method Please refer to the following page(s).

Test Result(s) Please refer to the following page(s).



Approved by

Chen Kaimin

Chen kaimin

Lab Manager

Date

Oct. 12, 2023

No. R188389705

Centre Testing International Pinbiao(Shanghai) Co., Ltd.

No.1351, Wanfang Road, Minhang District, Shanghai, China

Test Report

Report No. A2230516824101001

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Test Method

Test Item(s)	Test Method	Measured Equipment(s)
Lead (Pb)	IEC 62321-5:2013	ICP-OES
Cadmium (Cd)	IEC 62321-5:2013	ICP-OES
Mercury (Hg)	IEC 62321-4:2013+AMD1:2017 CSV	ICP-OES
Hexavalent Chromium (Cr(VI))	IEC 62321-7-2:2017 and/or determination of Total Chromium by IEC 62321-5:2013	UV-Vis/ICP-OES
Polybrominated Biphenyls (PBBs)	IEC 62321-6:2015	GC-MS
Polybrominated Diphenyl Ethers (PBDEs)	IEC 62321-6:2015	GC-MS
Phthalates (DBP, BBP, DEHP, DIBP)	IEC 62321-8:2017	GC-MS

Test Report

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Test Result(s)

Tested Item(s)	Result	MDL
	001	
Lead (Pb)	N.D.	2 mg/kg
Cadmium (Cd)	N.D.	2 mg/kg
Mercury (Hg)	N.D.	2 mg/kg
Hexavalent Chromium (Cr(VI))	N.D.	8 mg/kg

Tested Item(s)	Result	MDL
	001	
Polybrominated Biphenyls (PBBs)		
Monobromobiphenyl	N.D.	5 mg/kg
Dibromobiphenyl	N.D.	5 mg/kg
Tribromobiphenyl	N.D.	5 mg/kg
Tetrabromobiphenyl	N.D.	5 mg/kg
Pentabromobiphenyl	N.D.	5 mg/kg
Hexabromobiphenyl	N.D.	5 mg/kg
Heptabromobiphenyl	N.D.	5 mg/kg
Octabromobiphenyl	N.D.	5 mg/kg
Nonabromobiphenyl	N.D.	5 mg/kg
Decabromobiphenyl	N.D.	5 mg/kg

Tested Item(s)	Result	MDL
	001	
Polybrominated Diphenyl Ethers (PBDEs)		
Monobromodiphenyl ether	N.D.	5 mg/kg
Dibromodiphenyl ether	N.D.	5 mg/kg
Tribromodiphenyl ether	N.D.	5 mg/kg
Tetrabromodiphenyl ether	N.D.	5 mg/kg
Pentabromodiphenyl ether	N.D.	5 mg/kg
Hexabromodiphenyl ether	N.D.	5 mg/kg
Heptabromodiphenyl ether	N.D.	5 mg/kg
Octabromodiphenyl ether	N.D.	5 mg/kg
Nonabromodiphenyl ether	N.D.	5 mg/kg
Decabromodiphenyl ether	N.D.	5 mg/kg

Test Report

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Test Result(s)

Tested Item(s)	Result	MDL
	001	
Phthalates (DBP, BBP, DEHP, DIBP)		
Dibutyl phthalate (DBP) CAS#:84-74-2	N.D.	50 mg/kg
Butyl benzyl phthalate (BBP) CAS#:85-68-7	N.D.	50 mg/kg
Di-(2-ethylhexyl) phthalate (DEHP) CAS#:117-81-7	N.D.	50 mg/kg
Diisobutyl phthalate (DIBP) CAS#:84-69-5	N.D.	50 mg/kg

Sample/Part Description

No.	CTI Sample ID	Description
1	001	White plastic

Remark: The sample(s) had been dissolved totally tested for Lead, Cadmium, Mercury.

-MDL = Method Detection Limit

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

-mg/kg = ppm = parts per million

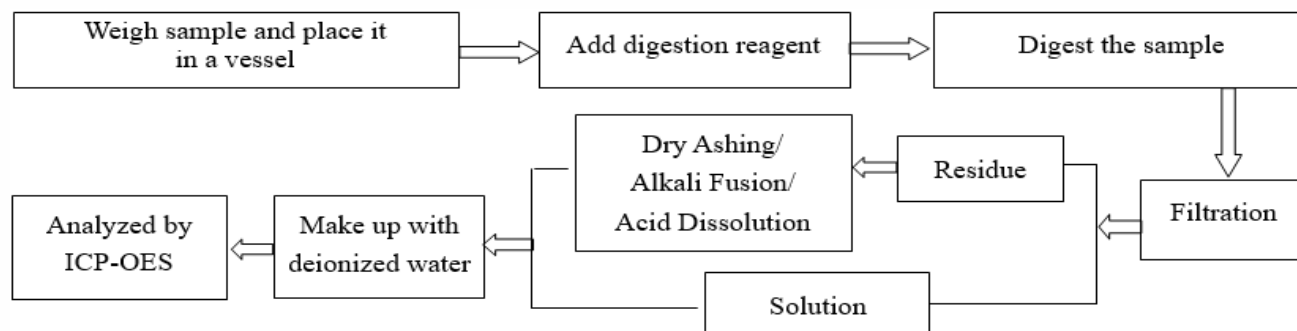
Test Report

Report No. A2230516824101001

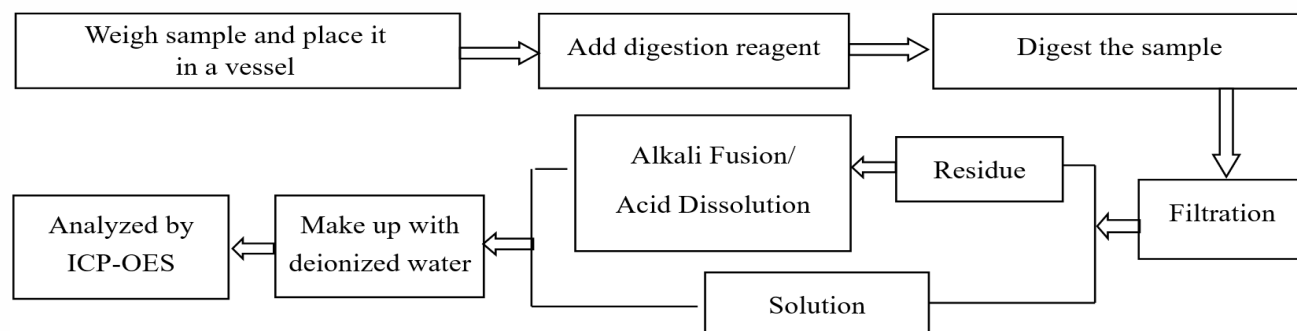
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Test Process

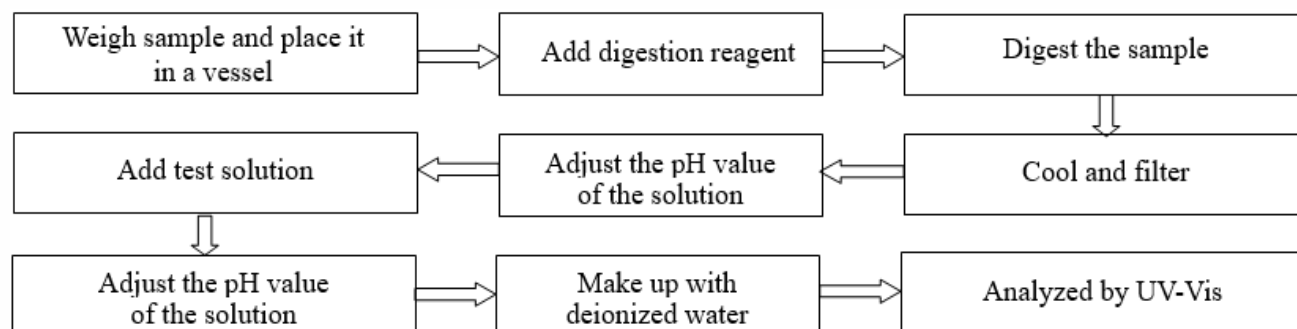
1. Lead (Pb), Cadmium (Cd), Chromium (Cr)



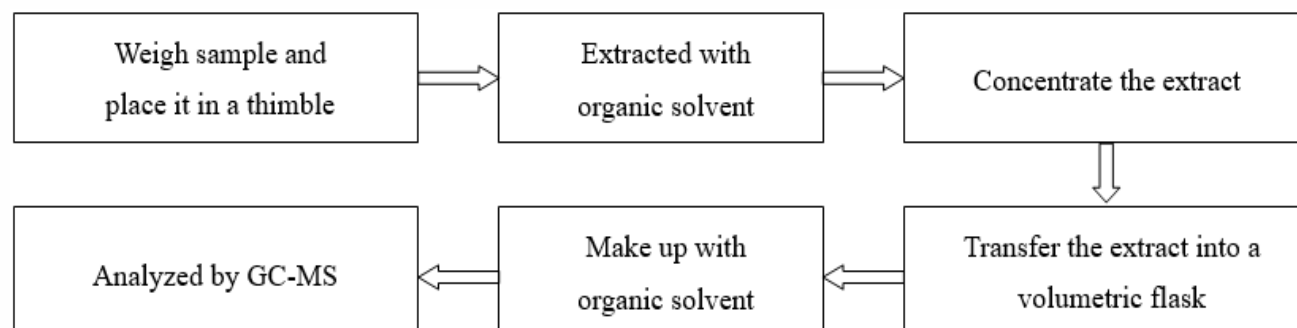
2. Mercury (Hg)



3. Hexavalent Chromium (Cr(VI))



4. Polybrominated Biphenyls (PBBs), Polybrominated Diphenyl Ethers (PBDEs)

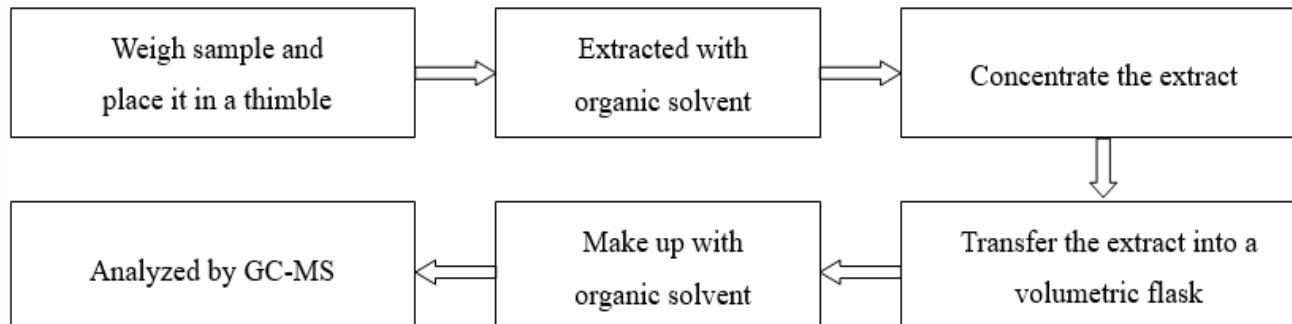


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5. Phthalates (DBP, BBP, DEHP, DIBP)

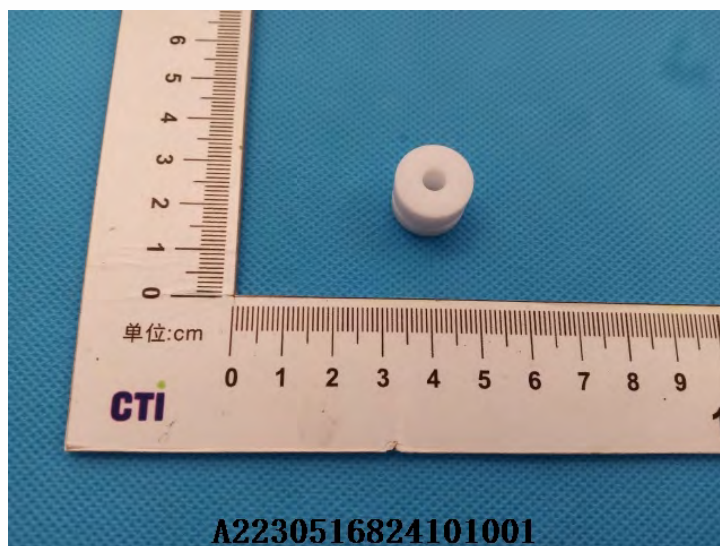


Test Report

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Photo(s) of the sample(s)



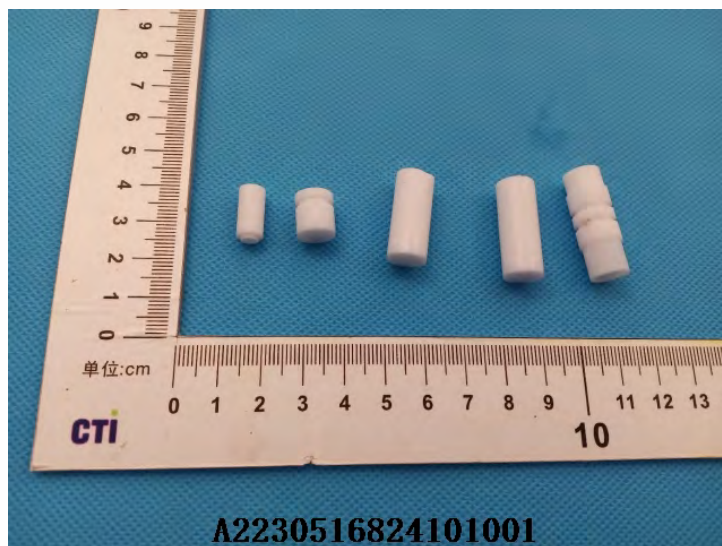
Statement:

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3. The result(s) shown in this report refer(s) only to the sample(s) tested;
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*** End of report ***

Appendix

Client Reference Photo (Non-tested sample)



Statement:

1. The Appendix Information was/were provided by the applicant who should be responsible for the authenticity which CTI hasn't verified.
2. The Appendix Information is/are the supplement(s) for the Report A2230516824101001.

检测报告

编号: SZXEC24001575002

日期: 2024 年 05 月 23 日

第 1 页, 共 8 页

客户名称: 深圳市亿鑫塑胶有限公司
客户地址: 广东省深圳市光明区公明街道马山头旭发科技园 A3 栋一楼

样品名称: PVC 胶粒 红色 白色 黑色
以上样品及信息由客户提供。

SGS 工作编号: SZP24-021656
样品接收时间: 2024 年 05 月 20 日
检测周期: 2024 年 05 月 20 日 ~ 2024 年 05 月 23 日
检测要求: 根据客户要求检测
检测方法: 见后续页。
检测结果: 见后续页。

检测要求	结论
铅、汞、镉、六价铬、多溴联苯 (PBB)、多溴二苯醚 (PBDE)、邻苯二甲酸二(2-乙基己基)酯 (DEHP)、邻苯二甲酸丁苄酯 (BBP)、邻苯二甲酸二丁酯 (DBP) 和邻苯二甲酸二异丁酯 (DIBP)	见检测结果

通标标准技术服务有限公司深圳分公司
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石常福

Ford Shi 石常福
批准签署人



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检测报告

编号: SZXEC24001575002

日期: 2024 年 05 月 23 日

第 2 页, 共 8 页

检测结果:

检测部件外观描述:

样品序号	样品编号	SGS 样品 ID	样品描述
SN1	A1	SZX24-0015750-0001.C001	红色塑胶粒+白色塑胶粒+黑色塑胶粒

备注:

- (1) 1 mg/kg = 1 ppm = 0.0001%
- (2) MDL = 方法检测限
- (3) ND = 未检出 (< MDL)
- (4) "-" = 未规定

铅、汞、镉、六价铬、多溴联苯 (PBB)、多溴二苯醚 (PBDE)、邻苯二甲酸二(2-乙基己基)酯 (DEHP)、邻苯二甲酸丁苄酯 (BBP)、邻苯二甲酸二丁酯 (DBP) 和邻苯二甲酸二异丁酯 (DIBP)

检测方法: 参考 IEC 62321-4:2013+AMD1:2017, IEC 62321-5:2013, IEC 62321-7-2:2017, IEC 62321-6:2015 和 IEC 62321-8:2017, 采用 ICP-OES/AAS, UV-Vis 和 GC-MS 进行分析。

检测项目	单位	MDL	A1
铅 (Pb)	mg/kg	2	ND
汞 (Hg)	mg/kg	2	ND
镉 (Cd)	mg/kg	2	ND
六价铬 (Cr(VI))	mg/kg	8	ND
多溴联苯之和 (PBB)	mg/kg	-	ND
一溴联苯 (MonoBB)	mg/kg	5	ND
二溴联苯 (DiBB)	mg/kg	5	ND
三溴联苯 (TriBB)	mg/kg	5	ND
四溴联苯 (TetraBB)	mg/kg	5	ND
五溴联苯 (PentaBB)	mg/kg	5	ND
六溴联苯 (HexaBB)	mg/kg	5	ND
七溴联苯 (HeptaBB)	mg/kg	5	ND
八溴联苯 (OctaBB)	mg/kg	5	ND
九溴联苯 (NonaBB)	mg/kg	5	ND
十溴联苯 (DecaBB)	mg/kg	5	ND
多溴二苯醚之和 (PBDE)	mg/kg	-	ND
一溴二苯醚 (MonoBDE)	mg/kg	5	ND
二溴二苯醚 (DiBDE)	mg/kg	5	ND
三溴二苯醚 (TriBDE)	mg/kg	5	ND
四溴二苯醚 (TetraBDE)	mg/kg	5	ND
五溴二苯醚 (PentaBDE)	mg/kg	5	ND
六溴二苯醚 (HexaBDE)	mg/kg	5	ND
七溴二苯醚 (HeptaBDE)	mg/kg	5	ND
八溴二苯醚 (OctaBDE)	mg/kg	5	ND
九溴二苯醚 (NonaBDE)	mg/kg	5	ND



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检测报告

编号: SZXEC24001575002

日期: 2024 年 05 月 23 日

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检测项目	单位	MDL	A1
十溴二苯醚 (DecaBDE)	mg/kg	5	ND
邻苯二甲酸二(2-乙基己基)酯 (DEHP)	mg/kg	50	ND
邻苯二甲酸丁苄酯 (BBP)	mg/kg	50	ND
邻苯二甲酸二丁酯 (DBP)	mg/kg	50	ND
邻苯二甲酸二异丁酯 (DIBP)	mg/kg	50	ND

备注: 样品的检测是基于申请人要求混合检测, 报告中的混合检测结果不代表其中个别单一材质的含量, 该检测数据仅供参考。

除非另有说明, 参照 ILAC-G8:09/2019, 使用简单接受 ($w=0$) 的二元判定规则进行符合性判定。

除非另有说明, 此报告结果仅对检测的样品负责。本报告未经本公司书面许可, 不可部分复制。

检测报告仅用于客户科研、教学、内部质量控制、产品研发等目的, 仅供内部参考。



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检测报告

编号: SZXEC24001575002

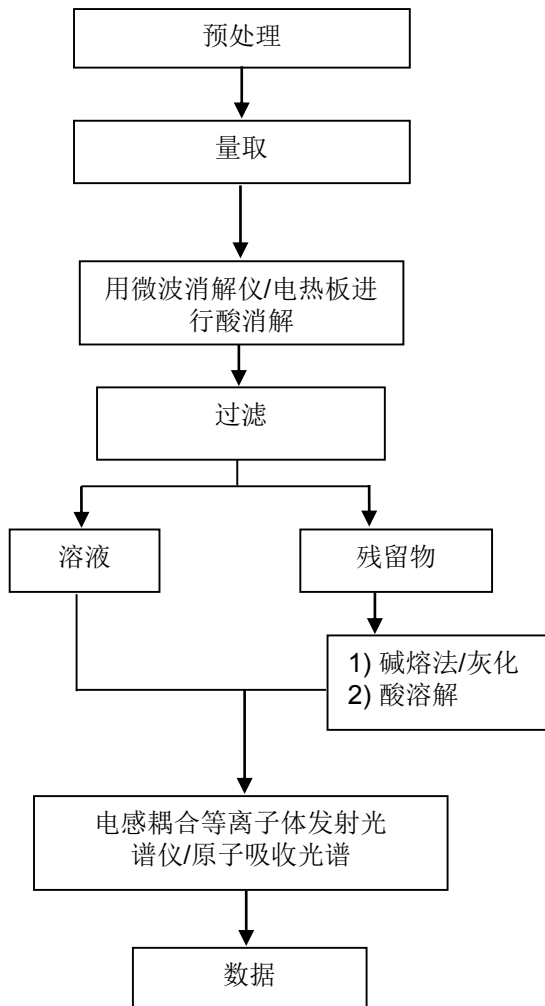
日期: 2024 年 05 月 23 日

第 4 页, 共 8 页

附件

元素检测流程图

样品按照下述流程被完全消解

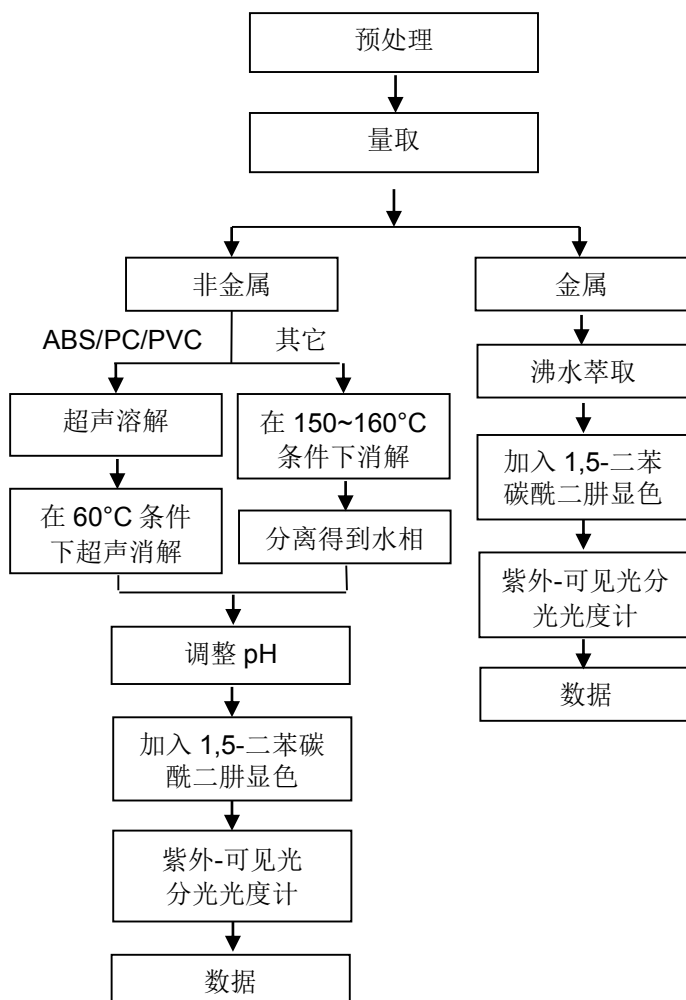


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六价铬检测流程图

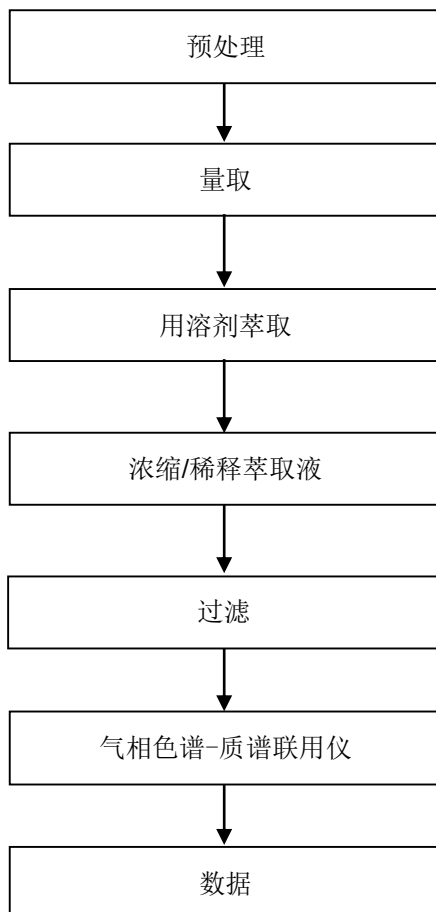


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PBB/PBDE 检测流程图



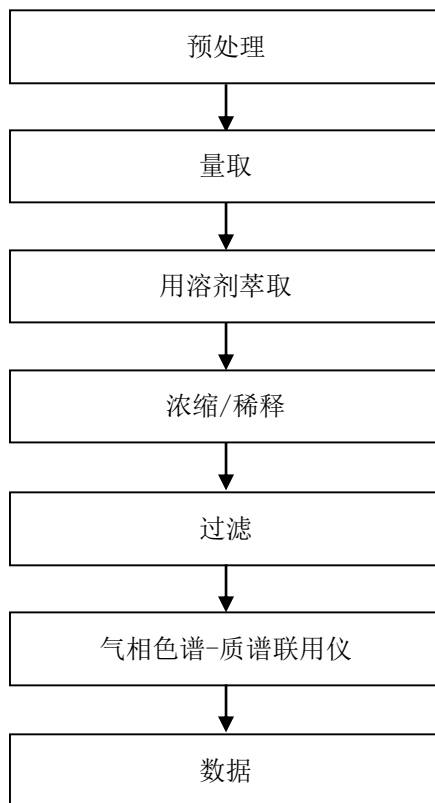
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Phthalates 检测流程图



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中国·广东·深圳市龙岗区坂田街道坂田社区吉华路430号江豪(坂田)工业厂区厂房4号101-201、2号101、3号301-501 邮编:518129 t:(86-755) 25328888 sgs.china@sgs.com

检测报告

编号: SZXEC24001575002

日期: 2024 年 05 月 23 日

第 8 页, 共 8 页

样品照片:



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Test Report

No.: CANEC23011615457

Date: Oct 23, 2023

Page 1 of 9

Client Name: GUANGZHOU KINGSSENS POLYMER SCIENCE AND TECHNOLOGY CO., LTD

Client Address: RONGHAI YONGHE INDUSTRIAL PARK, NO.2, YONGFENG ROAD, YONGHE DEVELOPMENT ZONE, LUOGANG DISTRICT, GUANGZHOU CITY

Sample Name: PE

Model No.: KS 1101, H411, KS L416

Client Ref. Information: KS 1102, KS 1103, KS 1104, KS 1105, KS 1106, KS 1107, KS 1108, KS 1109, KS 1101BK, KS 1101Z, KS 1101-H2G, KS 1101-1#, KS 1101E, KS 1105A, KS 1105B, KS 1105C, KS 1105D, KS 1105-BLT, KS 1105CF, KS 1105E, KS 7100, KS 7104, KS 7105, KS 7106, KS 7107, KS 7108, KS 7109, KS 7110, KS 7200, KS 7204, KS 7205, KS 7206, KS 7208, KS 7209, KS 7300, KS 7301, KS 7304, KS 7305, CROSS SKELETON MATERIAL, KS 2001, L211, L212, L213, L221, L222, L312, L410, L415, L416, L417, L418, L420, L511, L416B, L416C, L416M, L213B, M-213, H410, KS H410, KS H411, KS H412, KS H414, KS L415, KS L410, KS L417, KS L418, KS L420, KS L511, KS L416C, KS L416D, KS L416E, KS L416M, KS L415, KS L512, KS L213B, KS L213-WE106, KS XL213B, KJ Z35A, KJ P35A, KJ Z35B, KS X1101, KS X1102, KS XL414

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

SGS Job No.: GZP23-015875

Sample Receiving Date: Oct 13, 2023

Testing Period: Oct 13, 2023 ~ Oct 20, 2023

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
Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBBs), Polybrominated diphenyl ethers (PBDEs), Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP) and Diisobutyl phthalate (DIBP)	See Results
Halogen	See Results

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

Jessie Li

Jessie-JX Li
Approved Signatory

scan to see the report



EE472ADD



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Guangzhou Branch Technical Services Laboratory

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Test Report

No.: CANEC23011615457

Date: Oct 23, 2023

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Test Result(s):

Test Part Description:

SN ID	Sample No.	SGS Sample ID	Description
SN1	A15	CAN23-0116154-0001.C015	White grains(a)+white grains(b)+white grains(c)

Remarks:

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

Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBBs), Polybrominated diphenyl ethers (PBDEs), 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, UV-Vis and GC-MS.

Test Item(s)	Unit(s)	MDL	A15
Cadmium(Cd)	mg/kg	2	ND
Lead (Pb)	mg/kg	2	ND
Mercury (Hg)	mg/kg	2	ND
Hexavalent Chromium (Cr(VI))	mg/kg	8	ND
Polybromobiphenyl (PBBs)	mg/kg	-	ND
Monobromobiphenyl (MonoBB)	mg/kg	5	ND
Dibromobiphenyl (DiBB)	mg/kg	5	ND
Tribromobiphenyl (TriBB)	mg/kg	5	ND
Tetrabromobiphenyl (TetraBB)	mg/kg	5	ND
Pentabromobiphenyl (PentaBB)	mg/kg	5	ND
Hexabromobiphenyl (HexaBB)	mg/kg	5	ND
Heptabromobiphenyl (HeptaBB)	mg/kg	5	ND
Octabromobiphenyl (OctaBB)	mg/kg	5	ND
Nonabromobiphenyl (NonaBB)	mg/kg	5	ND
Decabromobiphenyl (DecaBB)	mg/kg	5	ND
Polybromodiphenyl ether(PBDEs)	mg/kg	-	ND
Monobromodiphenylether (MonoBDE)	mg/kg	5	ND
Dibromodiphenylether (DiBDE)	mg/kg	5	ND
Tribromodiphenylether (TriBDE)	mg/kg	5	ND
Tetrabromodiphenylether (TetraBDE)	mg/kg	5	ND
Pentabromodiphenylether (PentaBDE)	mg/kg	5	ND
Hexabromodiphenylether (HexaBDE)	mg/kg	5	ND
Heptabromodiphenylether (HeptaBDE)	mg/kg	5	ND
Octabromodiphenylether (OctaBDE)	mg/kg	5	ND
Nonabromodiphenylether (NonaBDE)	mg/kg	5	ND
Decabromodiphenylether (DecaBDE)	mg/kg	5	ND
Dibutyl Phthalate(DBP)	mg/kg	50	ND
Benzyl Butyl Phthalate(BBP)	mg/kg	50	ND



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Test Report

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Date: Oct 23, 2023

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Test Item(s)	Unit(s)	MDL	A15
Bis-(2-ethylhexyl) Phthalate(DEHP)	mg/kg	50	ND
Diisobutyl Phthalate(DIBP)	mg/kg	50	ND

Halogen

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

Test Item(s)	Unit(s)	MDL	A15
Fluorine(F)	mg/kg	20	ND
Chlorine(Cl)	mg/kg	50	ND
Bromine(Br)	mg/kg	50	ND
Iodine(I)	mg/kg	50	ND

Remark: The sample(s) was/were analyzed on behalf of the applicant as mixing sample in one testing. The above result(s) was/were only given as the informality value and only for reference.
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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Guangzhou Branch Technical Laboratory

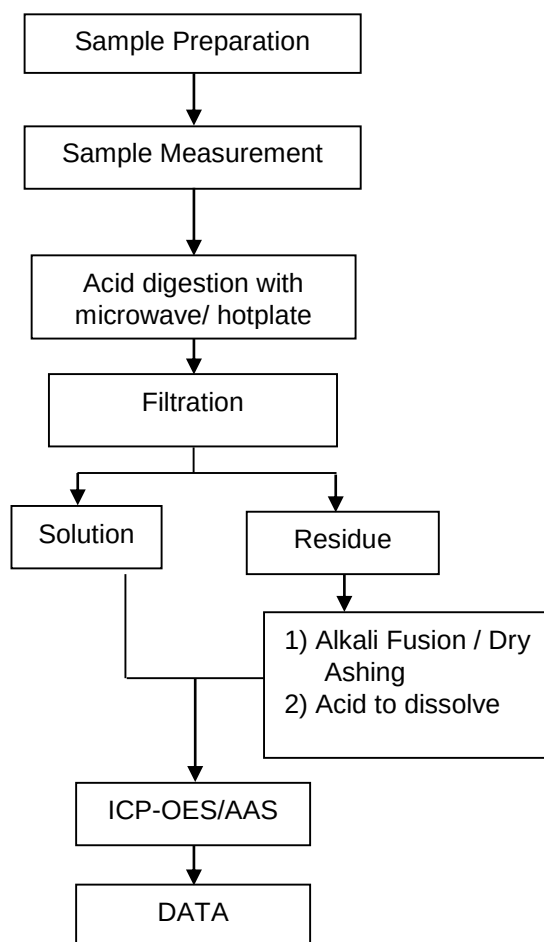
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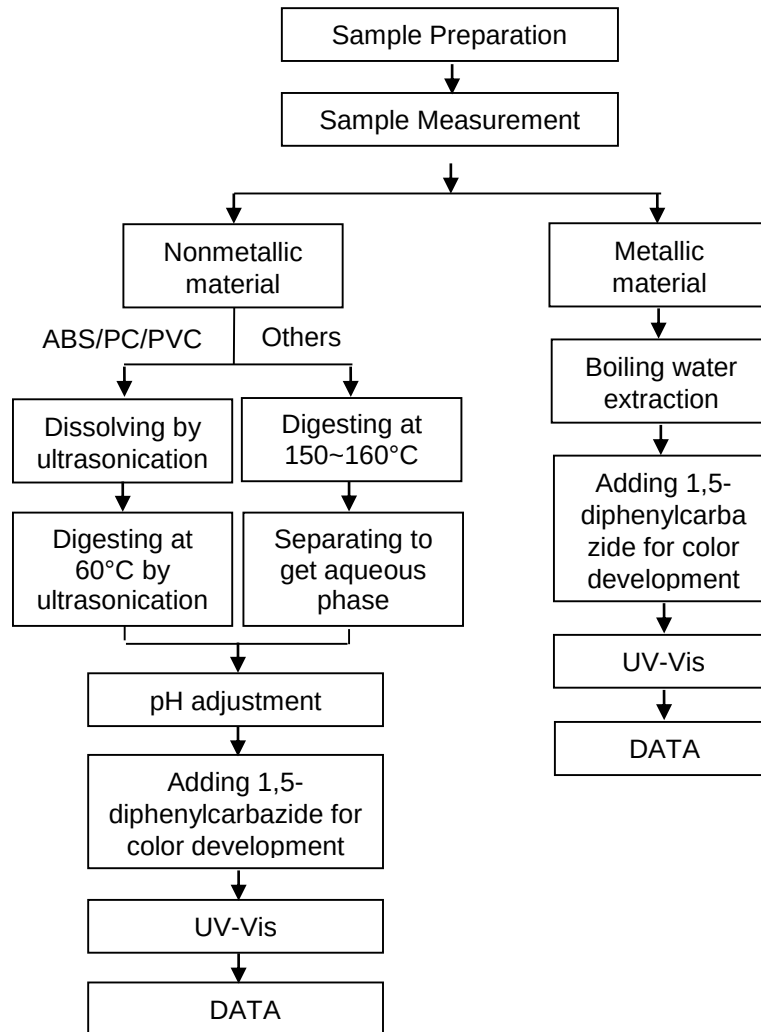
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Elements Testing Flow Chart

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



Hexavalent Chromium (Cr(VI)) Testing Flow Chart



Test Report

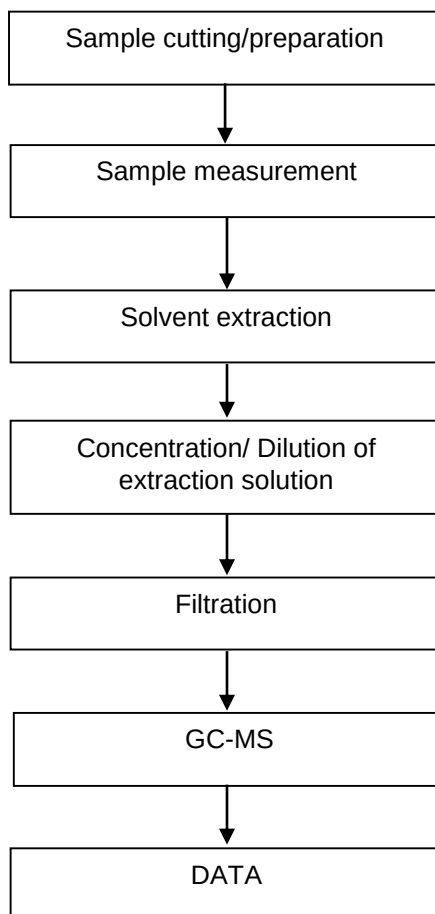
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PBBs/PBDEs Testing Flow Chart



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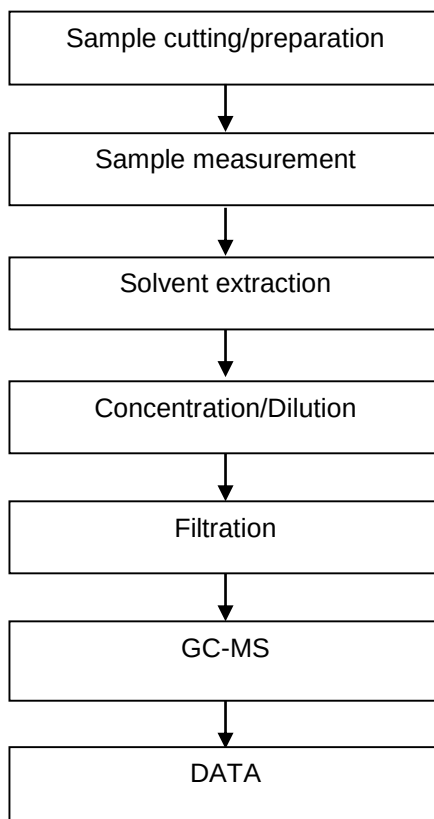
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Phthalates Testing Flow Chart



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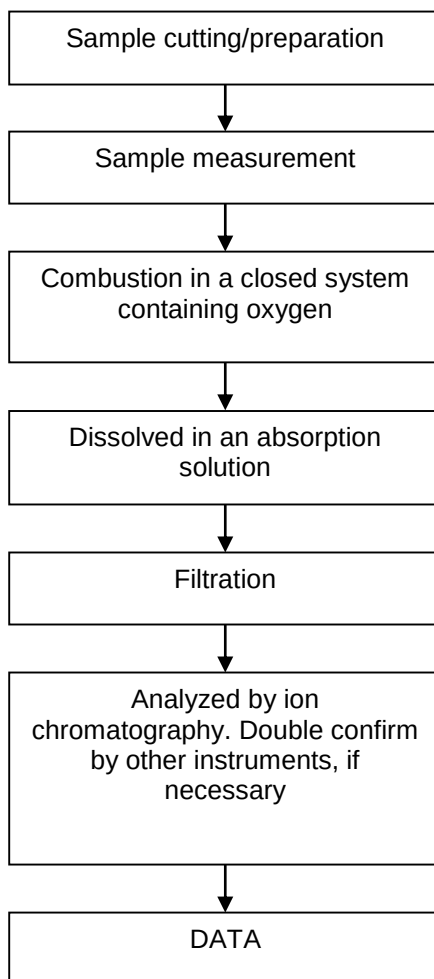
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Halogen Testing Flow Chart



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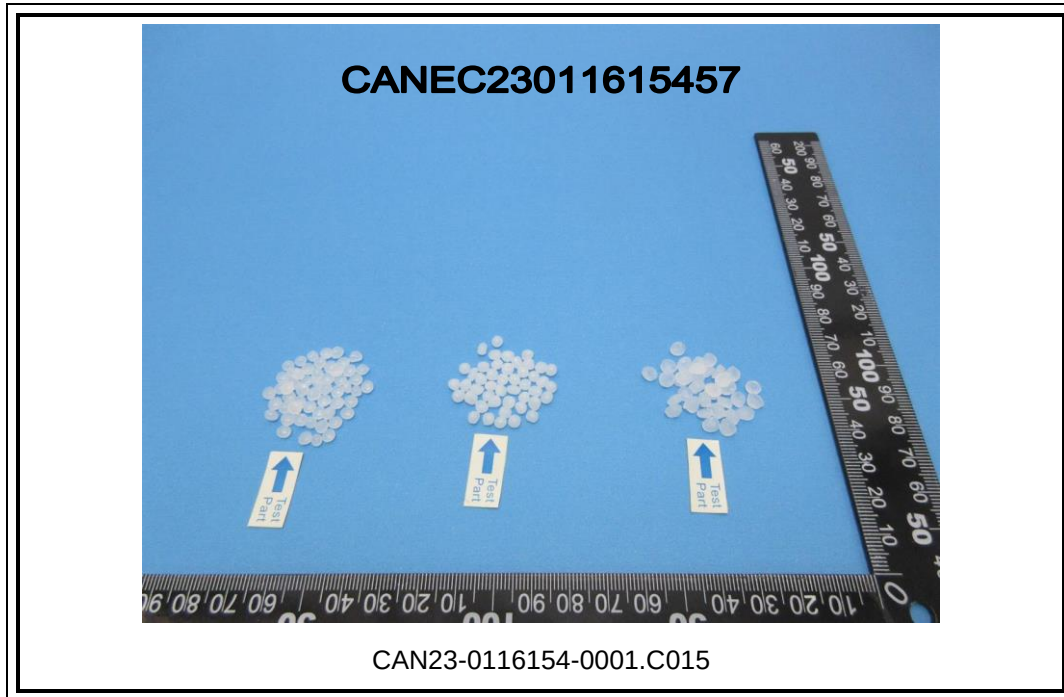
Test Report

No.: CANEC23011615457

Date: Oct 23, 2023

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Sample Photo:



SGS authenticate the photo on original report only

*** End of Report ***



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Test Report

Report No. A2240008108101001

Page 1 of 7

Company Name shown on Report YINGTAN CITY ZHONGXIN INTO COPPER CO.,LTD.

Address DENGHONG GONG ROADSIDE LONGGANG NEW AREA YINGTAN CITY JIANGXI PROVINCE

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

Sample Name Bare copper wire
Sample Received Date Jan. 4, 2024
Testing Period Jan. 4, 2024 to Jan. 9, 2024

Test Requested As specified by client, to test Lead (Pb), Cadmium (Cd), Mercury (Hg), Hexavalent Chromium (Cr(VI)), Polybrominated Biphenyls (PBBs), Polybrominated Diphenyl Ethers (PBDEs), Phthalates (DBP, BBP, DEHP, DIBP) in the submitted sample(s).

Test Method Please refer to the following page(s).

Test Result(s) Please refer to the following page(s).

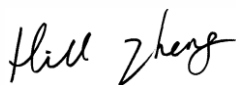
Conclusion

Tested Sample	According to standard/directive	Result
Submitted Sample	RoHS Directive 2011/65/EU with amendment (EU) 2015/863	PASS

PASS means that the results shown on the report comply with the limits set by RoHS Directive 2011/65/EU with amendment (EU) 2015/863.



Approved by



Date

Jan. 9, 2024

Hill Zheng

Technical Manager

No. R158922323

Centre Testing International Group Co.,Ltd.

CTI Building, Xing Dong Community, Xin'an Sub-district, Bao'an District, Shenzhen City, Guangdong Province, P.R. China

Test Report

Report No. A2240008108101001

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Test Method

Test Item(s)	Test Method	Measured Equipment(s)
Lead (Pb)	IEC 62321-5:2013	ICP-OES
Cadmium (Cd)	IEC 62321-5:2013	ICP-OES
Mercury (Hg)	IEC 62321-4:2013+AMD1:2017 CSV	ICP-OES
Hexavalent Chromium (Cr(VI))	IEC 62321-7-1:2015	UV-Vis
Polybrominated Biphenyls (PBBs)*	IEC 62321-6:2015	GC-MS
Polybrominated Diphenyl Ethers (PBDEs)*	IEC 62321-6:2015	GC-MS
Phthalates (DBP, BBP, DEHP, DIBP)*	IEC 62321-8:2017	GC-MS

Test Report

Report No. A2240008108101001

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Test Result(s)

Tested Item(s)	Result	MDL	Limit
	001		
Lead (Pb)	N.D.	2 mg/kg	1000 mg/kg
Cadmium (Cd)	N.D.	2 mg/kg	100 mg/kg
Mercury (Hg)	N.D.	2 mg/kg	1000 mg/kg
Hexavalent Chromium (Cr(VI))	N.D. ▼	0.10 µg/cm² (LOQ)	1000 mg/kg
Tested Item(s)	Result	MDL	Limit
	001		
Polybrominated Biphenyls (PBBs)*			
Monobromobiphenyl	N.D.	5 mg/kg	1000 mg/kg
Dibromobiphenyl	N.D.	5 mg/kg	
Tribromobiphenyl	N.D.	5 mg/kg	
Tetrabromobiphenyl	N.D.	5 mg/kg	
Pentabromobiphenyl	N.D.	5 mg/kg	
Hexabromobiphenyl	N.D.	5 mg/kg	
Heptabromobiphenyl	N.D.	5 mg/kg	
Octabromobiphenyl	N.D.	5 mg/kg	
Nonabromobiphenyl	N.D.	5 mg/kg	
Decabromobiphenyl	N.D.	5 mg/kg	
Tested Item(s)	Result	MDL	Limit
	001		
Polybrominated Diphenyl Ethers (PBDEs)*			
Monobromodiphenyl ether	N.D.	5 mg/kg	1000 mg/kg
Dibromodiphenyl ether	N.D.	5 mg/kg	
Tribromodiphenyl ether	N.D.	5 mg/kg	
Tetrabromodiphenyl ether	N.D.	5 mg/kg	
Pentabromodiphenyl ether	N.D.	5 mg/kg	
Hexabromodiphenyl ether	N.D.	5 mg/kg	
Heptabromodiphenyl ether	N.D.	5 mg/kg	
Octabromodiphenyl ether	N.D.	5 mg/kg	
Nonabromodiphenyl ether	N.D.	5 mg/kg	
Decabromodiphenyl ether	N.D.	5 mg/kg	

Test Report

Report No. A2240008108101001

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Test Result(s)

Tested Item(s)	Result	MDL	Limit
	001		
Phthalates (DBP, BBP, DEHP, DIBP)*			
Dibutyl phthalate (DBP) CAS#:84-74-2	N.D.	50 mg/kg	1000 mg/kg
Butyl benzyl phthalate (BBP) CAS#:85-68-7	N.D.	50 mg/kg	1000 mg/kg
Di-(2-ethylhexyl) phthalate (DEHP) CAS#:117-81-7	N.D.	50 mg/kg	1000 mg/kg
Diisobutyl phthalate (DIBP) CAS#:84-69-5	N.D.	50 mg/kg	1000 mg/kg

Sample/Part Description

No.	CTI Sample ID	Description
1	001	Cupreous metal wire

Remark: The sample(s) had been dissolved totally tested for Lead, Cadmium, Mercury.

-MDL = Method Detection Limit

-N.D. = Not Detected (<MDL or LOQ)

-mg/kg = ppm = parts per million

-1000 mg/kg = 0.1%

-LOQ = Limit of Quantification, The LOQ of Hexavalent chromium is 0.10 µg/cm²

-▼The sample is negative for Cr(VI) – The Cr(VI) concentration is below 0.10 µg/cm². The coating is considered a non-Cr(VI) based coating. 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.

Note: - “*” indicates the item(s)/method(s) is (are) not in CNAS accreditation scope.

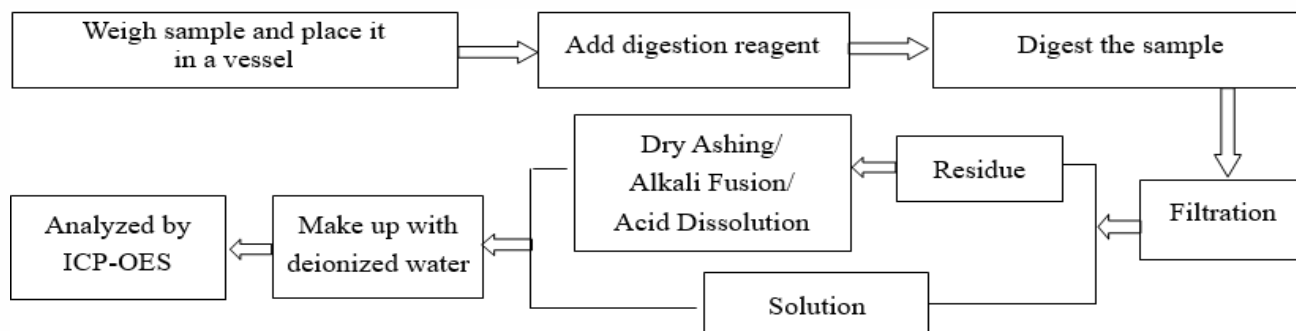
Test Report

Report No. A2240008108101001

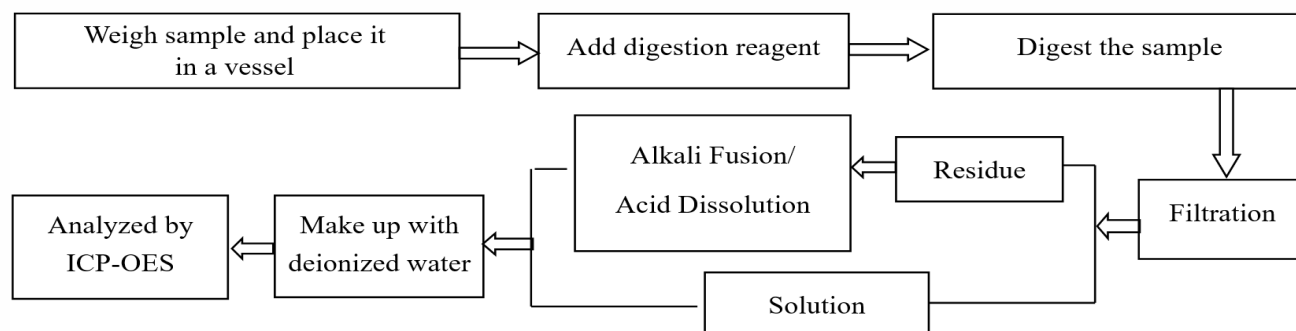
Page 5 of 7

Test Process

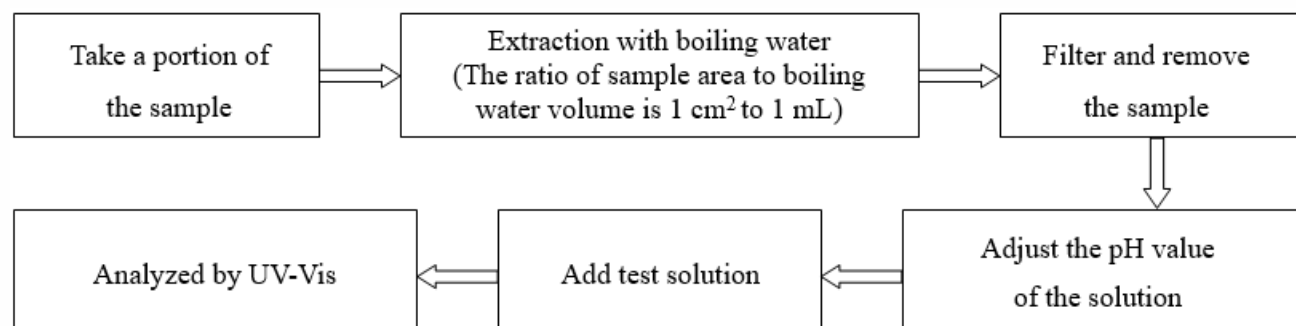
1. Lead (Pb), Cadmium (Cd)



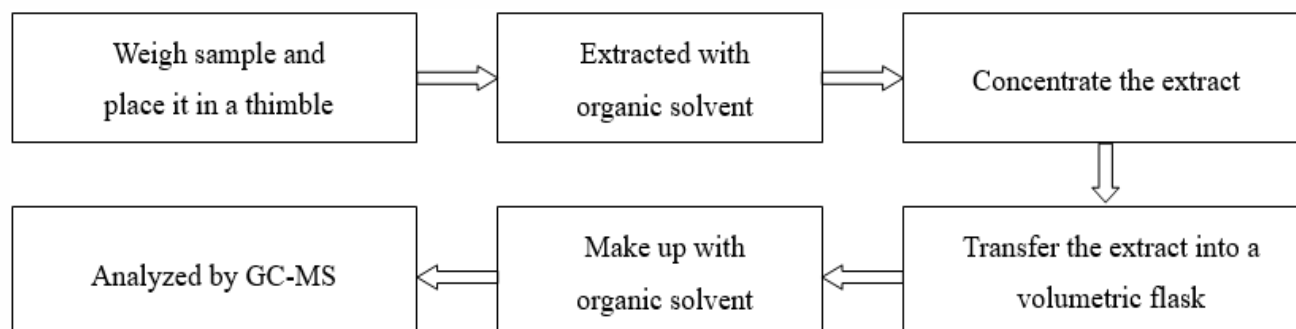
2. Mercury (Hg)



3. Hexavalent Chromium (Cr(VI))



4. Polybrominated Biphenyls (PBBs), Polybrominated Diphenyl Ethers (PBDEs)

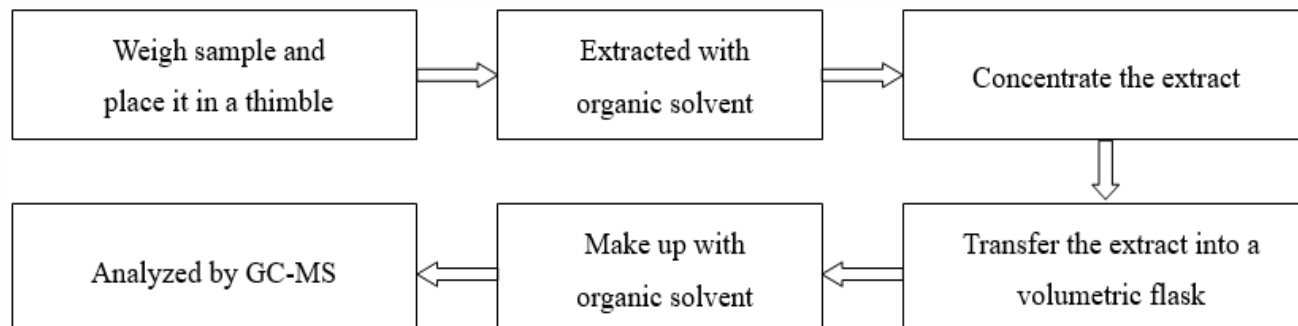


Test Report

Report No. A2240008108101001

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5. Phthalates (DBP, BBP, DEHP, DIBP)



Test Report

Report No. A2240008108101001

Page 7 of 7

Photo(s) of the sample(s)



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Test Report



Report No. A2240008108101003

Page 1 of 7

Company Name YINGTAN CITY ZHONGXIN INTO COPPER CO.,LTD.
shown on Report

Address DENGHONG GONG ROADSIDE LONGGANG NEW AREA YINGTAN CITY JIANGXI
PROVINCE

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

Sample Name Tinned copper wire
Sample Received Date Jan. 4, 2024
Testing Period Jan. 4, 2024 to Jan. 9, 2024

Test Requested As specified by client, to test Lead (Pb), Cadmium (Cd), Mercury (Hg), Hexavalent Chromium (Cr(VI)), Polybrominated Biphenyls (PBBs), Polybrominated Diphenyl Ethers (PBDEs), Phthalates (DBP, BBP, DEHP, DIBP) in the submitted sample(s).

Test Method Please refer to the following page(s).

Test Result(s) Please refer to the following page(s).

Conclusion

Tested Sample	According to standard/directive	Result
Submitted Sample	RoHS Directive 2011/65/EU with amendment (EU) 2015/863	PASS

PASS means that the results shown on the report comply with the limits set by RoHS Directive 2011/65/EU with amendment (EU) 2015/863.



Approved by

Date

Jan. 9, 2024

Hill Zheng

Technical Manager

No. R158922323

Centre Testing International Group Co., Ltd.

CTI Building, Xing Dong Community, Xin'an Sub-district, Bao'an District, Shenzhen City, Guangdong Province, P.R. China

Test Report

Report No. A2240008108101003

Page 2 of 7

Test Method

Test Item(s)	Test Method	Measured Equipment(s)
Lead (Pb)	IEC 62321-5:2013	ICP-OES
Cadmium (Cd)	IEC 62321-5:2013	ICP-OES
Mercury (Hg)	IEC 62321-4:2013+AMD1:2017 CSV	ICP-OES
Hexavalent Chromium (Cr(VI))	IEC 62321-7-1:2015	UV-Vis
Polybrominated Biphenyls (PBBs)*	IEC 62321-6:2015	GC-MS
Polybrominated Diphenyl Ethers (PBDEs)*	IEC 62321-6:2015	GC-MS
Phthalates (DBP, BBP, DEHP, DIBP)*	IEC 62321-8:2017	GC-MS

Test Report

Report No. A2240008108101003

Page 3 of 7

Test Result(s)

Tested Item(s)	Result	MDL	Limit
	003		
Lead (Pb)	N.D.	2 mg/kg	1000 mg/kg
Cadmium (Cd)	N.D.	2 mg/kg	100 mg/kg
Mercury (Hg)	N.D.	2 mg/kg	1000 mg/kg
Hexavalent Chromium (Cr(VI))	N.D. ▼	0.10 µg/cm² (LOQ)	1000 mg/kg
Tested Item(s)	Result	MDL	Limit
	003		
Polybrominated Biphenyls (PBBs)*			
Monobromobiphenyl	N.D.	5 mg/kg	1000 mg/kg
Dibromobiphenyl	N.D.	5 mg/kg	
Tribromobiphenyl	N.D.	5 mg/kg	
Tetrabromobiphenyl	N.D.	5 mg/kg	
Pentabromobiphenyl	N.D.	5 mg/kg	
Hexabromobiphenyl	N.D.	5 mg/kg	
Heptabromobiphenyl	N.D.	5 mg/kg	
Octabromobiphenyl	N.D.	5 mg/kg	
Nonabromobiphenyl	N.D.	5 mg/kg	
Decabromobiphenyl	N.D.	5 mg/kg	
Tested Item(s)	Result	MDL	Limit
	003		
Polybrominated Diphenyl Ethers (PBDEs)*			
Monobromodiphenyl ether	N.D.	5 mg/kg	1000 mg/kg
Dibromodiphenyl ether	N.D.	5 mg/kg	
Tribromodiphenyl ether	N.D.	5 mg/kg	
Tetrabromodiphenyl ether	N.D.	5 mg/kg	
Pentabromodiphenyl ether	N.D.	5 mg/kg	
Hexabromodiphenyl ether	N.D.	5 mg/kg	
Heptabromodiphenyl ether	N.D.	5 mg/kg	
Octabromodiphenyl ether	N.D.	5 mg/kg	
Nonabromodiphenyl ether	N.D.	5 mg/kg	
Decabromodiphenyl ether	N.D.	5 mg/kg	

Test Report

Report No. A2240008108101003

Page 4 of 7

Test Result(s)

Tested Item(s)	Result	MDL	Limit
	003		
Phthalates (DBP, BBP, DEHP, DIBP)*			
Dibutyl phthalate (DBP) CAS#:84-74-2	N.D.	50 mg/kg	1000 mg/kg
Butyl benzyl phthalate (BBP) CAS#:85-68-7	N.D.	50 mg/kg	1000 mg/kg
Di-(2-ethylhexyl) phthalate (DEHP) CAS#:117-81-7	N.D.	50 mg/kg	1000 mg/kg
Diisobutyl phthalate (DIBP) CAS#:84-69-5	N.D.	50 mg/kg	1000 mg/kg

Sample/Part Description

No.	CTI Sample ID	Description
1	003	Metal wire with silvery plating

Remark: The sample(s) had been dissolved totally tested for Lead, Cadmium, Mercury.

-MDL = Method Detection Limit

-N.D. = Not Detected (<MDL or LOQ)

-mg/kg = ppm = parts per million

-1000 mg/kg = 0.1%

-LOQ = Limit of Quantification, The LOQ of Hexavalent chromium is 0.10 µg/cm²

-▼The sample is negative for Cr(VI) – The Cr(VI) concentration is below 0.10 µg/cm². The coating is considered a non-Cr(VI) based coating. 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.

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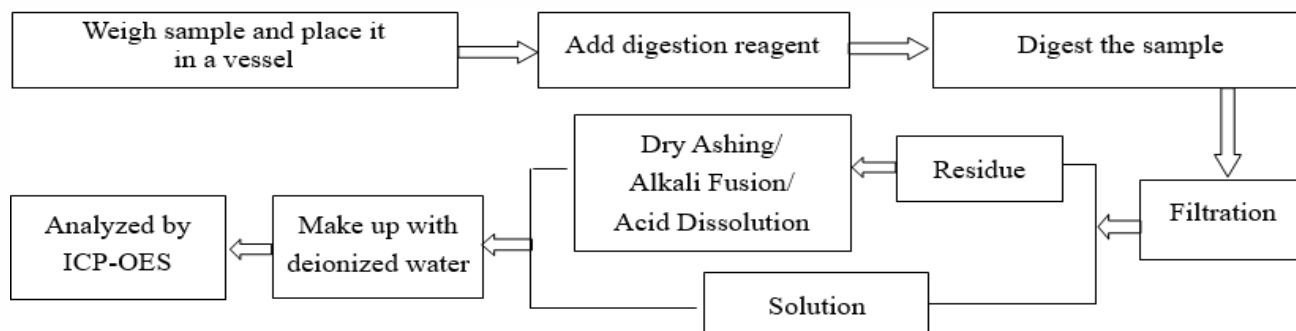
Test Report

Report No. A2240008108101003

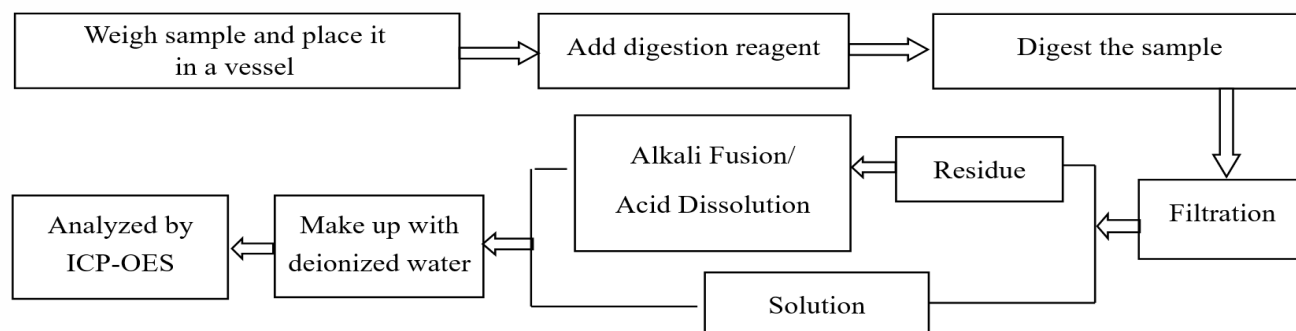
Page 5 of 7

Test Process

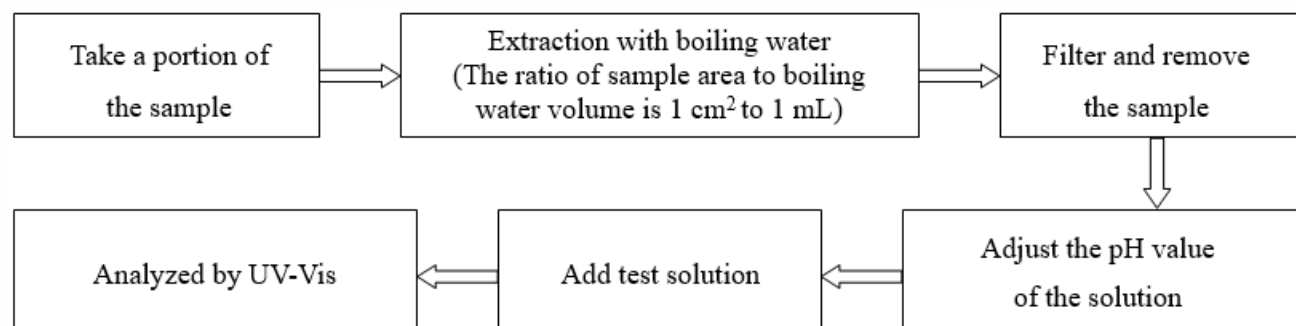
1. Lead (Pb), Cadmium (Cd)



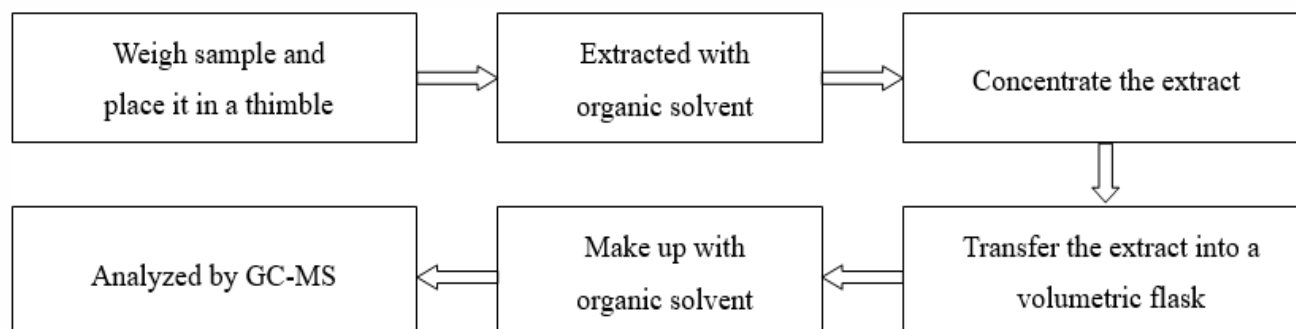
2. Mercury (Hg)



3. Hexavalent Chromium (Cr(VI))



4. Polybrominated Biphenyls (PBBs), Polybrominated Diphenyl Ethers (PBDEs)

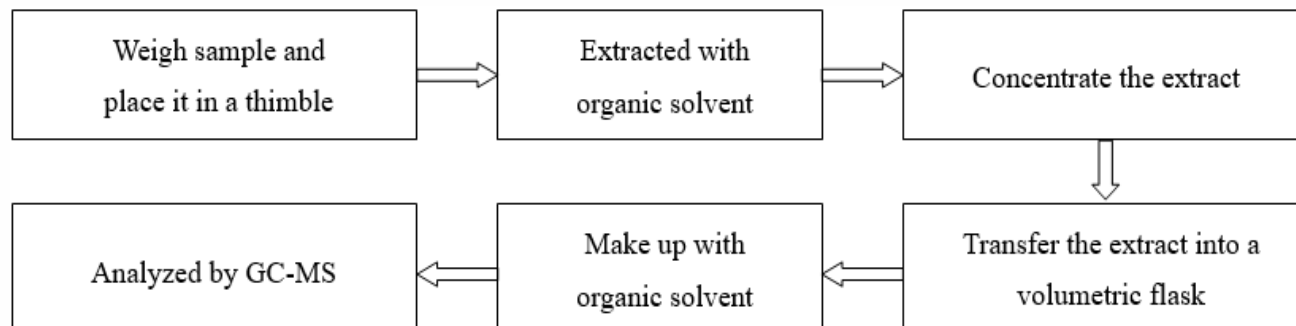


Test Report

Report No. A2240008108101003

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5. Phthalates (DBP, BBP, DEHP, DIBP)

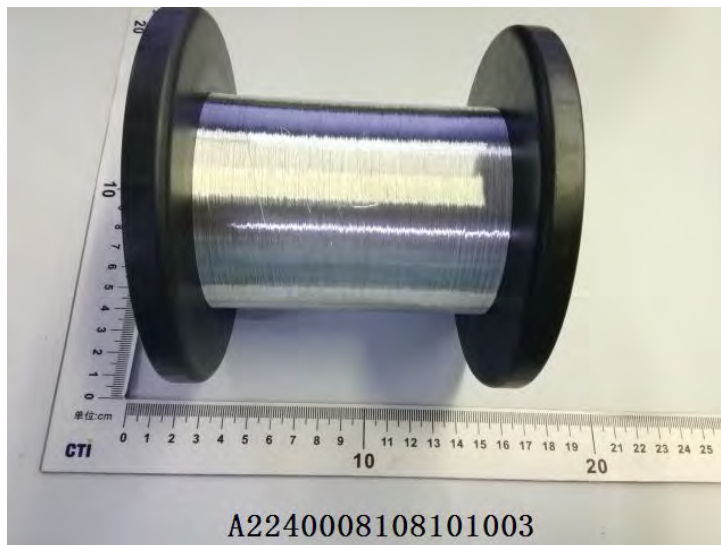


Test Report

Report No. A2240008108101003

Page 7 of 7

Photo(s) of the sample(s)



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检测报告

编号: NGBEC24000950106

日期: 2024 年 03 月 11 日

第 1 页, 共 8 页

客户名称: 浙江双胤科技有限公司
客户地址: 浙江省湖州市长兴县虹星桥镇西南工业集中区

样品名称: 铝箔聚酯膜贴面
以上样品及信息由客户提供。

SGS 工作编号: NBP24-001015
样品接收时间: 2024 年 03 月 05 日
检测周期: 2024 年 03 月 05 日 ~ 2024 年 03 月 11 日
检测要求: 根据客户要求检测。
检测方法: 见后续页。
检测结果: 见后续页。

检测要求	结论
欧盟 RoHS 指令 2011/65/EU 附录 II 的修正指令(EU) 2015/863-铅、汞、镉、六价铬、多溴联苯 (PBB)、多溴二苯醚 (PBDE)、邻苯二甲酸二(2-乙基己基)酯 (DEHP)、邻苯二甲酸丁苄酯 (BBP)、邻苯二甲酸二丁酯 (DBP)和邻苯二甲酸二异丁酯 (DIBP)	符合

通标标准技术服务有限公司宁波分公司
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彭茜瑶

Sissie Peng 彭茜瑶
批准签署人



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检测报告

编号: NGBEC24000950106

日期: 2024 年 03 月 11 日

第 2 页, 共 8 页

检测结果:

检测部件外观描述:

样品序号	样品编号	SGS 样品 ID	样品描述
SN1	A2	NGB24-0009501-0001.C002	银色箔

备注:

- (1) 1 mg/kg = 1 ppm = 0.0001%
(2) MDL = 方法检测限
(3) ND = 未检出 (< MDL)
(4) "-" = 未规定

欧盟 RoHS 指令 2011/65/EU 附录 II 的修正指令(EU) 2015/863-铅、汞、镉、六价铬、多溴联苯 (PBB)、多溴二苯醚 (PBDE)、邻苯二甲酸二(2-乙基己基)酯 (DEHP)、邻苯二甲酸丁苄酯 (BBP)、邻苯二甲酸二丁酯 (DBP)和邻苯二甲酸二异丁酯 (DIBP)

检测方法: 参考 IEC 62321-4:2013+AMD1:2017, IEC 62321-5:2013, IEC 62321-7-2:2017, IEC 62321-6:2015 和 IEC 62321-8:2017, 采用 ICP-OES/AAS, UV-Vis 和 GC-MS 进行分析。

检测项目	限值	单位	MDL	A2
铅 (Pb)	1000	mg/kg	2	ND
汞 (Hg)	1000	mg/kg	2	ND
镉 (Cd)	100	mg/kg	2	ND
六价铬 (Cr(VI))	1000	mg/kg	8	ND
多溴联苯之和 (PBB)	1000	mg/kg	-	ND
一溴联苯 (MonoBB)	-	mg/kg	5	ND
二溴联苯 (DiBB)	-	mg/kg	5	ND
三溴联苯 (TriBB)	-	mg/kg	5	ND
四溴联苯 (TetraBB)	-	mg/kg	5	ND
五溴联苯 (PentaBB)	-	mg/kg	5	ND
六溴联苯 (HexaBB)	-	mg/kg	5	ND
七溴联苯 (HeptaBB)	-	mg/kg	5	ND
八溴联苯 (OctaBB)	-	mg/kg	5	ND
九溴联苯 (NonaBB)	-	mg/kg	5	ND
十溴联苯 (DecaBB)	-	mg/kg	5	ND
多溴二苯醚之和 (PBDE)	1000	mg/kg	-	ND
一溴二苯醚 (MonoBDE)	-	mg/kg	5	ND
二溴二苯醚 (DiBDE)	-	mg/kg	5	ND
三溴二苯醚 (TriBDE)	-	mg/kg	5	ND
四溴二苯醚 (TetraBDE)	-	mg/kg	5	ND
五溴二苯醚 (PentaBDE)	-	mg/kg	5	ND
六溴二苯醚 (HexaBDE)	-	mg/kg	5	ND
七溴二苯醚 (HeptaBDE)	-	mg/kg	5	ND
八溴二苯醚 (OctaBDE)	-	mg/kg	5	ND



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检测报告

编号: NGBEC24000950106

日期: 2024 年 03 月 11 日

第 3 页, 共 8 页

检测项目	限值	单位	MDL	A2
九溴二苯醚 (NonaBDE)	-	mg/kg	5	ND
十溴二苯醚 (DecaBDE)	-	mg/kg	5	ND
邻苯二甲酸二(2-乙基己基)酯 (DEHP)	1000	mg/kg	50	ND
邻苯二甲酸丁苄酯 (BBP)	1000	mg/kg	50	ND
邻苯二甲酸二丁酯 (DBP)	1000	mg/kg	50	ND
邻苯二甲酸二异丁酯 (DIBP)	1000	mg/kg	50	ND

备注:

(1) 最大允许极限值引用自 RoHS 指令(EU) 2015/863。

(2) IEC 62321 系列等同于 EN 62321 系列。

(3) 2021 年 7 月 22 号开始, DEHP, BBP, DBP 和 DIBP 的限制适用于医疗器械, 包括体外医疗器械, 监控仪表, 包括工业监测和控制仪器。

除非另有说明, 参照 ILAC-G8:09/2019, 使用简单接受 ($w=0$) 的二元判定规则进行符合性判定。

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检测报告仅用于客户科研、教学、内部质量控制、产品研发等目的, 仅供内部参考。



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检测报告

编号: NGBEC24000950106

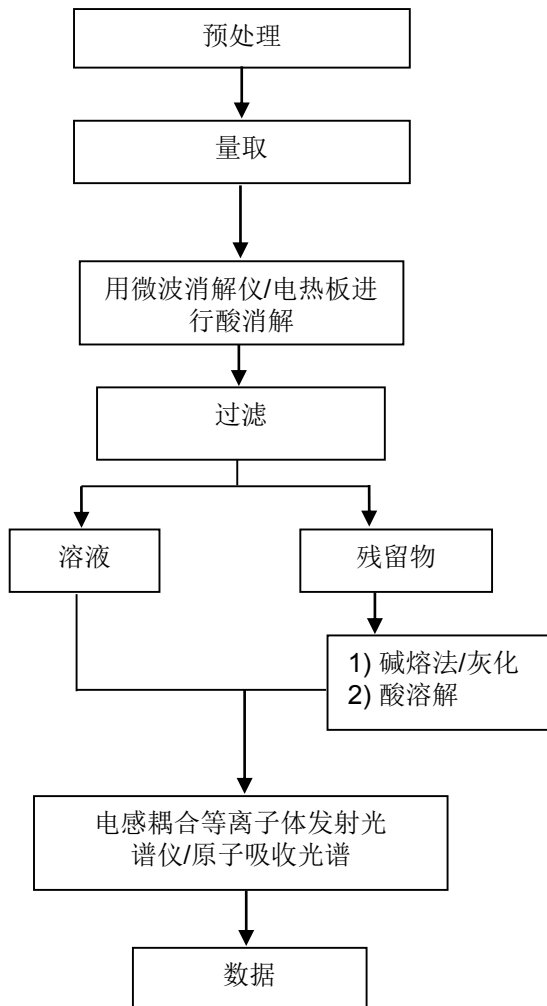
日期: 2024 年 03 月 11 日

第 4 页, 共 8 页

附件

元素检测流程图

样品按照下述流程被完全消解



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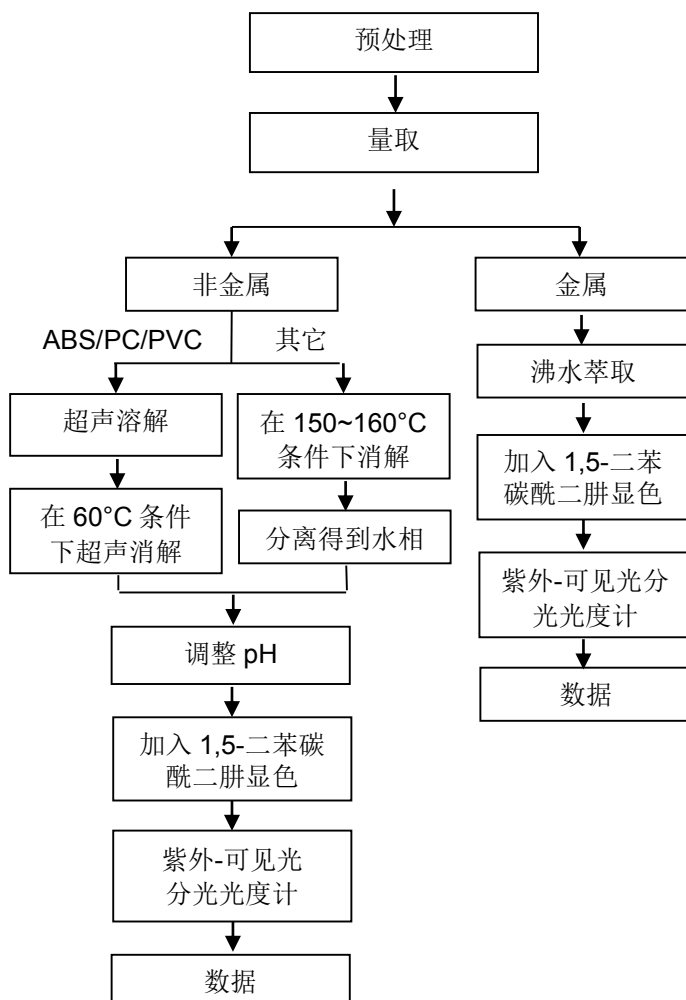
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六价铬检测流程图



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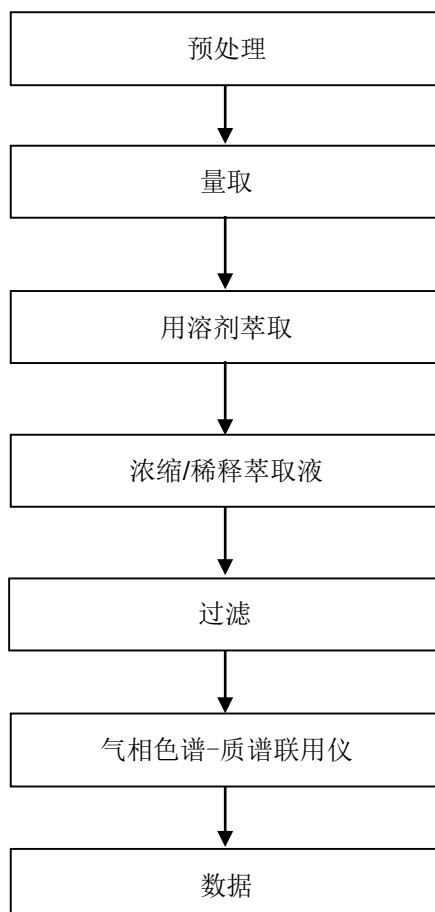
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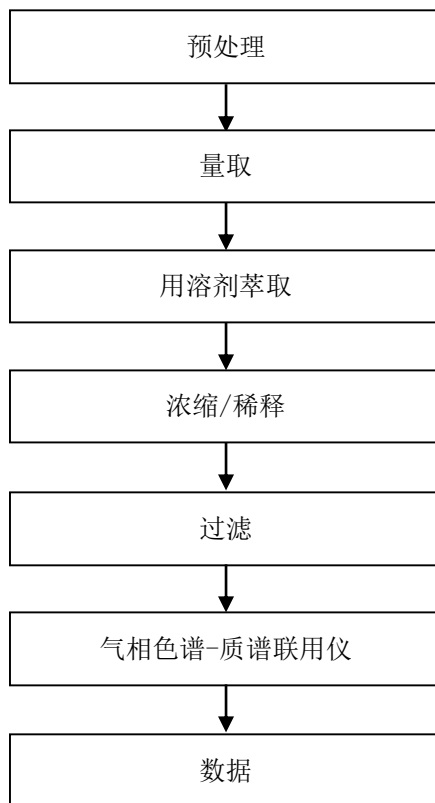
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PBB/PBDE 检测流程图



Phthalates 检测流程图



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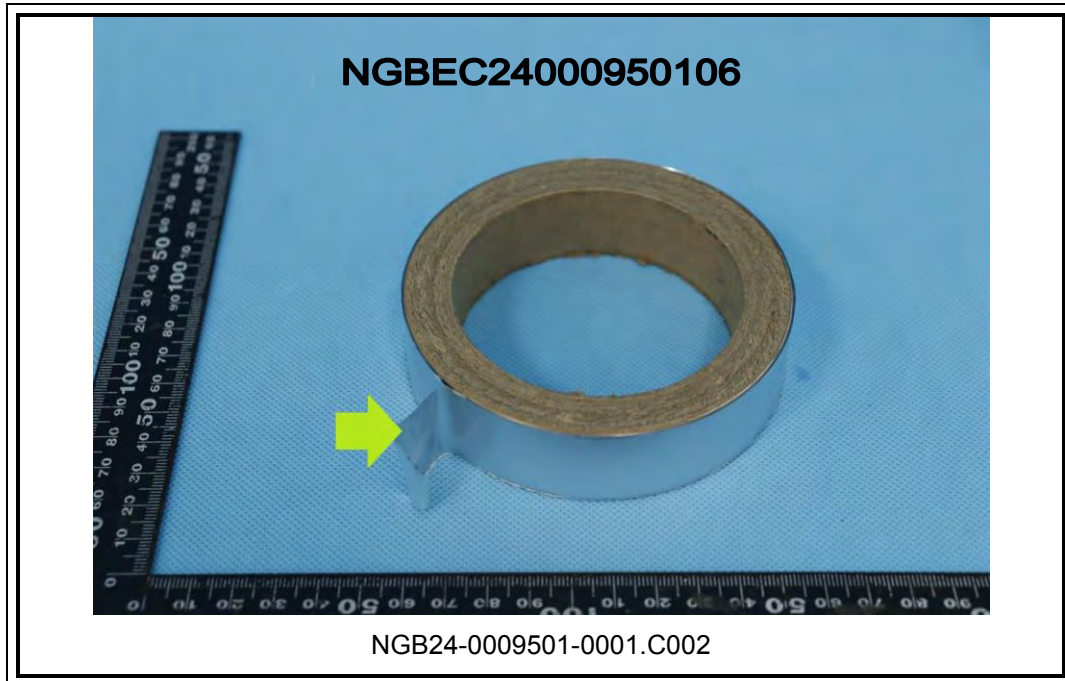
检测报告

编号: NGBEC24000950106

日期: 2024 年 03 月 11 日

第 8 页, 共 8 页

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