FLWCONN®

承认书

Approval Sheet

客户(Customer): /

客户料号 (Cus . P/N):/

华联威料号 (HLW P/N): JK1-230-DA17

品名规格 (PronameSpec):DC-033 中心柱 1.3

送样日期 (Delivery Date):2022/08/16

承认日期 (Acknowledge Date): 2022/08/16

Approved No:	客	户							
	Customer								
采 购 部	品 质 部	工程部	确认						
Purchasing Dept	QC Dept	Engineering Dept	Approved By						
深均	市华联威电	子科技有限公司							
SHEN ZHEN SI	HI HUA LIAN WEI EL	ECTRONICS TECHNOLOGY	Y CO; LTD.						
业 务 部	品 管 部	工程部	核 准						
Sales Dept	ales Dept QC Dept		Checked By						
吴鑫萍	欠必锋	陈建辉	唐竹君						

地址:深圳市龙华区观澜街道桂香社区观澜桂花路 307 号

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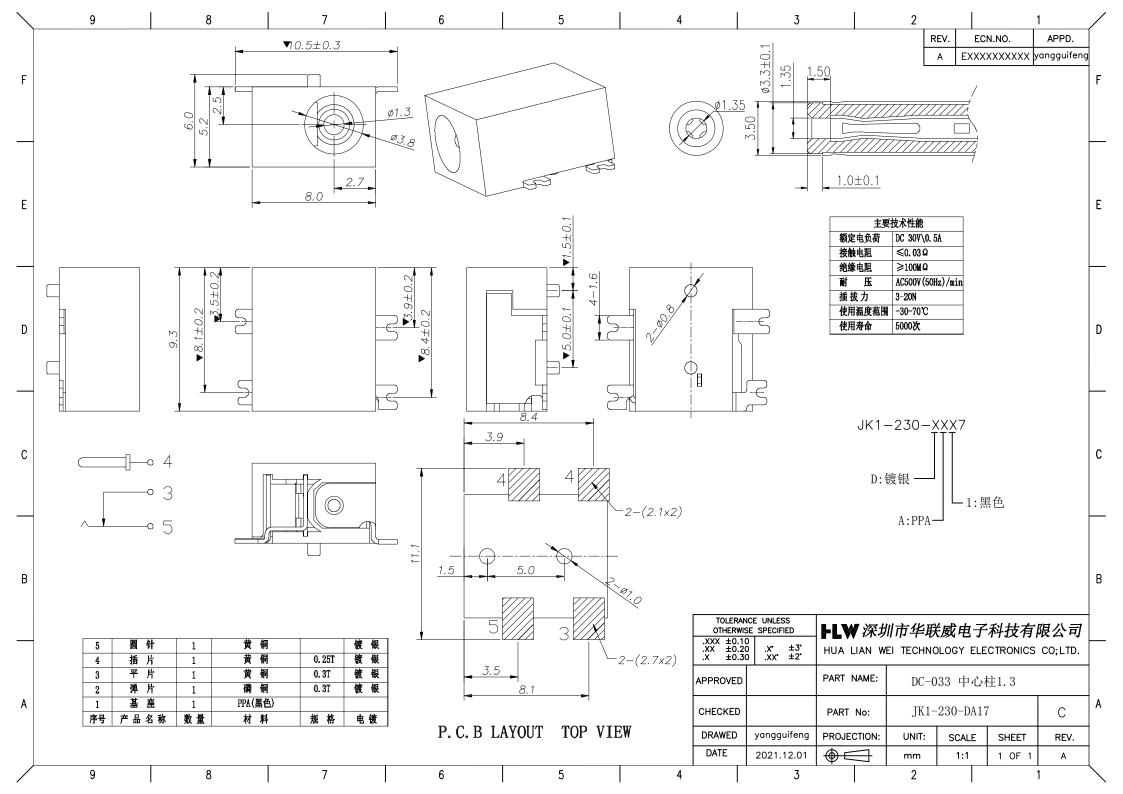


FLWCONN®

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SGS



HLWCONN® 深圳市华联威电子科技有限公司

JACK系列產品SPEC

	TEST ITEM	REQUIREMENT	PROCEDURE					
1	Examination of Product	Meets requirements of product drawing. No physical damage.	Visual inspection.					
2	Operating Temperature	-25°C to 85 °C						
3	Storage Temperature	-25°C to 85 °C						
		ELECTRICAL REQUIREME	NT					
4	Rating Voltage	12VAC max	on any signal pin with respect to the shield					
5	Rating Current	1.0 A per contact	55°C, maximum ambient 85°C, maximum temperature change (ANSI/EIA 364-70, TP-70)					
6	Contact Resistance	[50] m Ohm Max	Subject mated contacts assembled in housing to 20mV Max open circuit at 100mA Max. EIA-364-23.					
7	Dielectric withstanding Voltage	No flashover ,no creeping discharge, no breakdown	500 VAC for 1 minute between adjacent terminals. EIA 364-20					
8	Insulation Resistance	[100] M Ohm Min.	Mated connector with a voltage of 500V DC for 1 minutes between adjacent terminals EIA 364-21					
9	Temperature Rising	30°C Max. Under loaded rating current	Contact series-wired, apply test current of loaded rating current to the circuit, and measure the temperature rising by probing on soldered areas of contacts, after the temperature becomes stabilized deduct ambient temperature from the measured value.					
	Mechanical Requirement							
10	Connector Mating Force	3.0 kgf Max	Mating the connector with standard audio plug at a rate of 12.7 mm per minute EIA 364-13					
11	Connector Unmating Force	0.30~3.0 kgf	Unmating the connector with standard audio plug at a rate of 12.7 mm per minute EIA 364-13					

Usual Inspection-No physical damage LLCR-50 m Ω max per contact LLCR-50 m Ω max per contact cycles per hour.	with plug up to					
initial, 100 m Ω after 1500 insertions. EIA 364-09	ım rate of 200					
No discontinuity at 1 μ s or longer(each contact) when continuity is tested per ANSI/EIA-364-28,Cond 5A,15 minute/axis	lition III,Method					
Mechanical Shock No discontinuity at 1 μ s or longer(each contact) when continuity is tested per ANSI/EIA-364-27 Cond pulse)	lition A(specified					
At least 95% of the immersed area shall be covered with new solder 1) Temperature of fused °C. 2) Dipping time:5+0.5s						
Environmental Requirements						
Resistance to Solder Heat Resistance to Solder Heat Forming resin shall not be distorted, and terminations shall not be separated. 1) Depth of dipping term distance between the mo and solder surface shall 2mm. 2) Temperature: 245+5°C	ounting surface be 1 mm to					
17 Thermal Shock No physical damage to the samples and LLCR-50 m Ω max per contact Mated connectors exposibetween - 55°C to 85°C duration at both tempera	C, 30 minutes					
No physical damage to the samples and can pass the Dielectric Withstanding Voltage & Insulation Resistance Expose mated connector temperature of 40±2°C v humidity of 90-95% for Min(seven complete cyc surface moisture and air	with relative 168 hours cles). Remove					
Temperature Life (Heat Aging) [100] M Ohm Min. (insulation reisistance) ANSI/EIA-364-17 Cond for 250 hours, Method A						
Salt Spray Visual Inspection-No physical damageLLCR-50 m Ω max per contact Visual Inspection-No physical damageLLCR-50 m Ω max per contact Wated connector expose concentration for 12 hours and the second state of the secon	ars at temperature becimens shall be					
21 Colour Colour Atla Colour Atla 284C(Blue) 577C(Green) 701C(Red)						
Contact: <u>Cu:40u", Sn:40u"</u> Shell: <u>Cu:40u", Ni:40u"</u> Ground: <u>Cu:40u", Ni:40u"</u>						
Product Qualification and Requalification test						
Test Group						

Test or Examination	A	В	С	D	Е	F	G	Н	I	J
	Test Sequence (a)									
Examination of Product	1, 7	1, 9	1, 6	1, 5	1, 5	1, 5	1, 5	1, 3	1, 3	1, 3
Contact Resistance		2, 8	2, 5	2, 4	2, 4	2, 4	2, 4			
Dielectric withstanding	3, 6									
Insulation Resistance	2, 5									
Temperature Rising								2		
Mating Force		3, 7								
Unmating Force		4, 6								
Durability		5								
Vibration			3							
Mechanical Shock			4							
Solderability										2
Resistance to Soldering									2	
Thermal Shock				3						
Humidity Temperature	4				3					
Temperature Life						3				
Salt Spray							3			
備注	無客戶指定增加測試項目外,依照此標准進行產品可靠性評估。			平估。						

核准: 唐竹君 制作人: 魏红



深圳市华联威电子科技有限公司 SHENZHENHUALIANWEIELECTRONICS CO., LTD.

測 試 報 告TEST

REPORT

Asilon												
Part Name			DC-033 中心柱1.3			Report NO.			MD20220815-01			
Post			JK1-230-DA17		5PCS							
Fig. 別試項目 NO. Testing Item Testing Conditions Testing Equipment 別試股債 Testing Equipment 別域	一.電	一.電性測試 ELECTRICAL TEST										
## NO. Testing Item							測試記録	綠Testin	g Resul	t	判定Judge	
Test current:100mA max	號					1	2	3	4	5	Pass	Fail
2	1		Test current:100mA max							18.68 m Ω	Р	
Dielectric withstand voltage Voltage:1000VAC Cut-off current0.5mA Department0.5mA Department0	2		voltage:500VDC	RESISTANCE		Pass	Pass	Pass	Pass	Pass	Р	
Pass	3		voltage:1000VAC Cut- off current:0.5mA			Pass	Pass	Pass	Pass	Pass	Р	
Pass	二.機	二.機械特性測試 MECHANICAL TEST										
號 測試項目 測試條件 測試設備 規格 1 Durability test Rate:200cycles/hour Total: 5000cycles LIFE TESTER FOR CONNECTOR No physical damage Pass Pass <t< td=""><td></td><td></td><td></td><td></td><td></td><td colspan="3">測試記錄Testing</td><td colspan="3">sting Result #</td><td>Judge</td></t<>						測試記錄Testing			sting Result #			Judge
Durability test	號					1	2	3	4	5	Pass	Fail
at a maximum rare of 12.5mm(0.492") per minute 3.0kg max Pass P	1	Durability test				Pass	Pass	Pass	Pass	Pass	Р	
3 Un-Mating Force a maximum rare of 12.5mm(0.492") per minute Insertion force testing machine 1.2kg min Pass Pass<	2	Mating Force	at a maximum rare of 12.5mm(0.492") per		3.0kg max	Pass	Pass	Pass	Pass	Pass	Р	
序號 測試項目 測試條件 測試設備 規格 Testing Item Testing Conditions Testing Equipment 規格 1 Humidity-Temperature cycle Temperature: 40±2°C Humidityy: 90~95% Duration:168H PROGRAM CONTROLLED TEMP. & HUMIDTY CHAMBER No physical damage Pass Pass Pass Pass Pass Pass Pass Pass	3	Un-Mating Force	a maximum rare of 12.5mm(0.492″) per		1.2kg min	Pass	Pass	Pass	Pass	Pass	Р	
號 測試項目 Testing Item 測試條件 Testing Conditions 測試設備 Testing Equipment 規格 SPEC 1 Humidity- Temperature cycle Temperature: 40±2°C Humidityy: 90~95% Duration:168H PROGRAM CONTROLLED TEMP. & HUMIDTY CHAMBER No physical damage Pass Pass Pass Pass Pass Pass Pass	三.環	三.環境特性測試 ENVIRONMENTAL TEST										
Humidity— Temperature: 40±2°C Humidityy: 90~95% Duration:168H Temperature: 70 PROGRAM CONTROLLED TEMP. & HUMIDTY CHAMBER No physical damage Pass Pass Pass Pass Pass Pass Pass Pas	號						測試記録	綠Testin	g Resul	t	判定	Judge
Humidity- Temperature: 40±2°C Humidityy: 90~95% Duration:168H Temperature: 70 Humidityy: 90 ~95% CHAMBER No physical damage Pass Pass Pass Pass Pass Pass Pass Pas	NO.	l esting Item	l esting Conditions	l esting Equipment	SPEC	1	2	3	4	5	Pass	Fail
	1	Temperature	Humidityy: 90 ~95%	CONTROLLED TEMP. & HUMIDTY		Pass	Pass	Pass	Pass	Pass	Р	
2 Heat test ±2°CDuration:96H	2	Heat test	Temperature: 70 ±2°CDuration:96H	OVEN	No physical damage	Pass	Pass	Pass	Pass	Pass	Р	

3	Cold test	Temperature: −25 ±3°CDuration:168H	PROGRAM CONTROLLED TEMP. & HUMIDTY CHAMBER	No physical damage	Pass	Pass	Pass	Pass	Pass	Ъ	
4	Temperature cycling test	Temperature:85 ~-25°C Duration:5 cycle PROGRAM CONTROLLED TEMP. & HUMIDTY CHAMBER		No physical damage	Pass	Pass	Pass	Pass	Pass	Р	
四.物	理測試 PHYSICAI	L TEST									
序號	測試項目 Testing Item			規格 SPEC		測試記録	記錄Testing Result			判定Judge	
NO.	Tooling Itom	resumg semantions	resume Equipment 3PEO		1	2	3	4	5	Pass	Fail
1	Salt spray test	Temperature: 35±2°C Concentration:5±1 %Duration:12H	SALT SPRAY TESTER	No Oxidation	Pass	Pass	Pass	Pass	Pass	Р	
2	Resistance to soldering heat test	Temperature: 260±5°C Duration:10±1sec	OVEN	No physical damage	Pass	Pass	Pass	Pass	Pass	Р	
3	Solder ability test	Temperature: 260±5°C Duration:5±0.5 sec CONTROLLED CONSTANT-TEMP SOLDER POT		Soldering area ≥95□	Pass	Pass	Pass	Pass	Pass	Р	
	判 定 Result ■合格 (ACCEPT) □ 不合格 (REJECT)										

核准(Approver): 欠必峰 測試(Tester): 但芬

FLWCONN® 深圳市华联威电子科技有限公司

檢驗報告

■首1	牛檢驗 口人庫	植競験 口間	出貨檢	驗 凵	客退檢	驗 凵	退料檢	驗 凵	其他		2022年	拝08月16日	】版次:A1
料號	JK1-230-[DA17	制令	單號		/	送檢	單位	I	1程部	首件	製作者	裝配
品名	DC-033 中心	、柱1 3	安白	化账		/	批	量	1		送	僉時間	1
	DC 033 117L	.γд	台厂	客戶代號 / /		數	量	5	PCS	確記	忍時間	1	
	抽樣標準			■單	次	□雙次			羊数	AQL		MAJ:0.40	MIN:0.65
	MIL-STD-1051	E(II)		正常	□ 力口,	嚴 □	減量	(5P	CS)	ACC/REJ	0	/	/
不	良 数:	CRI (/) M	ſAJ (/) M	IN (/)	不良	學率(%)	/
NO.	檢驗項目	檢測		檢	驗記	錄		品管	判定	CRI	MAJ	MIN	備注
110.	單位:MM/G	儀器	1	2	3	4	5	AC	RE	Citi	1017 13	IVIIIV	
	10.5±0.30	D	10.52	10.51	10.50	10.53	10.52	√					
	2.5±0.30	D	2.52	2.51	2.52	2.50	2.51	\checkmark					
	6.0±0.30	D	6.02	6.01	6.02	6.02	6.01	\checkmark					
	5.2±0.30	D	5.24	5.24	5.25	5.24	5.23	\checkmark					
	2.5±0.30	D	2.51	2.50	2.52	2.51	2.50	√					
	1.3±0.30	D	1.32	1.35	1.32	1.32	1.33	√					
	3.8±0.30	D	3.82	3.81	3.82	3.80	3.82	√					
	2.7±0.30	D	2.72	2.71	2.73	2.72	2.72	√					
	8.0±0.30	D	8.02	8.01	8.01	8.03	8.02	√					
	9.3±0.30	D	9.31	9.30	9.34	9.32	9.32	\checkmark					
	8.1±0.20	D	8.12	8.13	8.12	8.13	8.12	\checkmark					
	3.5±0.20	D	3.50	3.51	3.53	3.52	3.52	\checkmark					
	8.4±0.20	D	8.41	8.42	8.43	8.40	8.40	√					
	5.0±0.1	D	5.01	5.01	5.02	5.03	5.02	√					
	1.6±0.3	D	1.62	1.61	1.63	1.62	1.62	√					
	0.8±0.3	D	0.82	0.81	0.83	0.83	0.82	√					
1.6 m.6.1													
										口其它			
	義器:A游標卡尺	B千分尺	C厚薄	儀 D投	影鏡 E	放大鏡	F顯微鏡	竟 G錫	爐 H	插拔力器	I間位尺	J其它	
品保										i			
	核 准 APP	久	《必锋			核 HK		/		檢驗 INSPl		但	旦芬

保存部門:品保部 保存期限:三年 QR-M-003



深圳市华联威电子科技有限公司

电镀报告表

品名:DC-033 中心柱1.3 (端子)版次:A.0电镀规格:Ni40u", Sn40u", Ag4u"日期:2022/07/30页次:1/1

厂商:同华

测试设备:CMI X-射线膜厚测试仪

1、底层电镀测试(Ni)

数据	测试标准	实测值	判定	测试日期	测试时间
1	40u"MIN	60. 5u"	OK	2022/7/30	10:20:15
2	40u"MIN	58. 3u"	OK	2022/7/30	10:20:17
3	40u"MIN	67. 5u"	OK	2022/7/30	10:20:19
4	40u"MIN	62. 4u"	OK	2022/7/30	10:20:21

3、表层电镀测试(Ag)

数据	测试标准	实测值	判定	测试日期	测试时间
1	4u"MIN	4. 3u"	OK	2022/7/30	10:30:32
2	4u"MIN	4. 2u"	OK	2022/7/30	10:30:34
3	4u"MIN	4. 5u"	OK	2022/7/30	10:30:36
4	4u"MIN	4.7u"	OK	2022/7/30	10:30:38

核准:欠必锋 审核:李娟 检验员:但芬

FLWCONN®

深圳市华联威电子科技有限公司

盐水喷雾实验报告

盐水喷雾腐蚀试验法	参考资料	MIL-STD-1345				
EUTRL SALT SPRAY CORROSION TEST	REF	MIL SID 1040				
	试验起始日期	2022年08月15日 20:00 时起				
	DATE	2022年08月16日 08:00 时止				
品名称 DC-033 中心柱1.3 P/N JK1-230-DA17		5PCS				
7	UTRL SALT SPRAY CORROSION TEST DC-033 中心柱1.3	UTRL SALT SPRAY CORROSION TEST REF 试验起始日期 DATE DC-033 中心柱1.3 试验数量				

试验条件 (TEST CONDDITION)

- 1、盐水溶解(SALT SOLUTION:浓度50±10g/L,PH值6.5-7.2.
- 2、试验室温度 (TEMP. IT THE SPRAY DHAMBR):35±1℃.
- 3、盐水桶温度 (TEMP. OF SALE SOL'N TANK): 35±1℃.
- 4、 压力桶温度 (TEMP.OF SAR SUPPLIERY): 47±1℃.
- 5、 试验室相对湿度(R.H IN THE CHAMBER) 85%.
- 6、 压缩空气压力(COMPRESSED AIR PRESSURE): 1.00±0.01Kg/cm².
- 7、 样品放置位置(SPECIMEN SUPPORTED ANGLE): 尼龙绳吊挂70°-90°.
- 8、 喷雾收集量 (COLLECT RATE OF SALT SOL′N) 1-2mL/(8 cm²hr).
- 9、盐雾测试时间: 12小时 (H)

判定方法(ADFUSGD METHOD)

试验后以20倍放大镜观察、无蓝、绿色腐蚀物之现象(不包含折弯处),即判定合格.(Inspext the ecimen at 20 xmagnification no blue or green corrosion products are acceptable)

CCIMCII at 2	o xiliagililication no blue of green collosion	products are acceptable,
共口亭 已	试验后现象	判定
样品序号	PHENOMENON AFTER TEST	COMMENT
1	无蓝、绿色腐蚀物之现象	OK
2	无蓝、绿色腐蚀物之现象	OK
3	无蓝、绿色腐蚀物之现象	OK
4	无蓝、绿色腐蚀物之现象	OK
5	无蓝、绿色腐蚀物之现象	OK

核准:欠必锋 审核:李娟 试验员:但芬

钜鼎銅材廠檢驗報告單

公司名稱 Customer	20 10 10 10 10 10 10 10 10 10 10 10 10 10	钜鼎銅材廠	檢驗報告單		重量 Weight(kg)	1078		日期 ate	2021	/11/23
品名	2 2 2 2 2	標	[准			寸		態	銅卷	 編號
Article		Stand	ard No		Dime	ension	Ter	nper	Co	il No
C2680	v.	JISH31	00:2017		0.18	*400	E	EH	1021	-C-08
				化學	式分Chemical Con	mpositions(%)				
元素 Element	Cu %	Zn%	Pb%	Fe%	\	\	1	\	化學成分	雜質
規範 Spec	64.0-68.0	餘量	<0.05	<0.05	\	1	\	\	合格	合格
實測 Actual	64.32	餘量	0.0036	0.0136	\	1	١	\	合格	合格
				機械性	質子Mechanical	Properties				
項目	結晶粒度	硬度	抗拉強度	伸長度	導電率	彎曲試驗	表面	粗度	彎	曲度
Item	Grain Size	Hardness	TensionStrength	Elongation	Electrical Conduc	Bending Test	Surface F	Roughness		mber
	Mm	Hv	Mpa	%	%IACS	180	Ra(u m)	m	m\n
規範MAX Spec	\	170-190	490-610	\	\	\		\	-	\
實測 Actual	\	178	574	5	\	\		\		\ - ·

品質部

聯系電話:0755-28111847 傳真: 0755-28110077 送货专用量



Test Report No. CANEC2119174201 Date: 22 Oct 2021 Page 1 of 4

SHENZHEN HUALIANWEI ELECTRONICS TECHNOLOGY CO.,LTD

101, 201, PLANT 1, NO.307, GUANLAN GUIHUA ROAD, GUIXIANG COMMUNITY, GUANLAN SUB-DISTRICT, LONGHUA DISTRICT, SHENZHEN CITY, GUANGDONG PROVINCE, CHINA

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

SGS Job No. : CP21-055214 - GZ

Model No.: C2680 terminal after plating

Client Ref. Info.: Used for USB series, HDMI series, RJ series, 1394 series, MICRO series, MINI

series, DISPLAYPORT series, VGA series, DVI series, TYPE-C series, JACK

series

Date of Sample Received: 18 Oct 2021

Testing Period: 18 Oct 2021 - 22 Oct 2021

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

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

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

Conclusion: Based on the performed tests on submitted sample(s), the results of Lead,

Mercury, Cadmium, Hexavalent chromium comply with the limits as set by RoHS

Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU.

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

Allie Chen

Allie Chen
Approved Signatory





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Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 83071443, or email: CN.Doccheck@gss.com"

198 Kezhu Road,Scientech Park Guangzhou Economic & Technology Development District, Guangzhou, China 510663 中国・广州・经济技术开发区科学城科珠路198号 邮编: 510663

0663 t (86–20) 82155555 0663 t (86–20) 82155555



Test Report No. CANEC2119174201 Date: 22 Oct 2021 Page 2 of 4

Test Results:

Test Part Description:

Specimen No. SGS Sample ID Description

CAN21-191742.001 SN₁ Silver-grey/brassy metal

Remarks:

(1) 1 mg/kg = 0.0001%

(2) MDL = Method Detection Limit

(3) ND = Not Detected (< MDL)

(4) "-" = Not Regulated

RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU

With reference to IEC 62321-4:2013+A1:2017, IEC 62321-5:2013, IEC 62321-7-1:2015, Test Method: analyzed by ICP-OES and UV-Vis.

Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>
Cadmium (Cd)	100	mg/kg	2	ND
Lead (Pb)	1,000	mg/kg	2	44
Mercury (Hg)	1,000	mg/kg	2	ND
Hexavalent Chromium (Cr(VI))▼	_	µg/cm²	0.10	ND

Notes:

- (1) The maximum permissible limit is quoted from RoHS Directive (EU) 2015/863.
- (2) IEC 62321 series is equivalent to EN 62321 series

https://www.cenelec.eu/dyn/www/f?p=104:30:1742232870351101::::FSP_ORG_ID,FSP_LANG_ID:12586

- (3) ▼= a. The sample is positive for CrVI if the CrVI concentration is greater than 0.13 µg/cm². The sample coating is considered to contain CrVI
 - b. The sample is negative for CrVI if CrVI is ND (concentration less than 0.10 µg/cm²). The coating is considered a non-CrVI 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.



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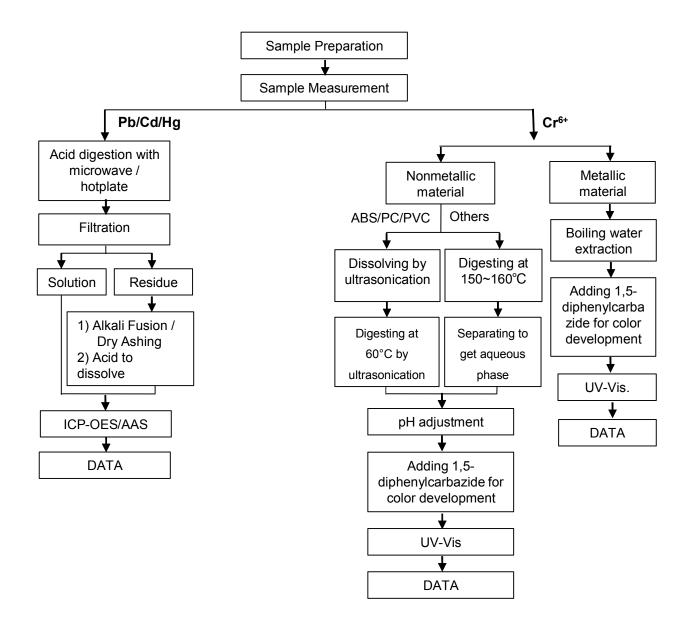
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ATTACHMENTS

Pb/Cd/Hg/Cr6+ Testing Flow Chart

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





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Date: 22 Oct 2021

Sample photo:



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报告抬头公司名称 宁波毅哲新材料有限公司

Company Name NINGBO YIZHE NEW MATERIALS CO.,LTD

shown on Report

地 址 浙江省余姚市舜汇东路 107 号

Address NO.107 SHUNHUI EAST ROAD, YUYAO CITY, ZHEJIANG PROVINCE

以下测试之样品及样品信息由申请者提供并确认

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

样品名称 PPA YZ-6140 Sample Name PPA YZ-6140 样品接收日期 2021.03.15 Sample Received Date Mar. 15, 2021

样品检测日期 2021.03.15-2021.03.20

Testing Period Mar. 15, 2021 to Mar. 20, 2021

测试内容 Test Conducted:

根据客户的申请要求,具体要求详见下一页。

As requested by the applicant. For details refer to next page(s).



主 检 II 国 栋 Reviewed by Pr 世菜

Н

Date

期

2021.03.20

No. R465028463

宁波高新区菁华路76号厂区东首第一、二层

1-2F, Eastern Factory, No.76, Jinghua Road, High-Tech Zone, Ningbo, Zhejiang, China

Centre Testing International (Ningbo) Co.,Ltd.

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测试摘要 Executive Summary:

<u>测试</u>	要求	<u>测试结果</u>
TES	T REQUEST	CONCLUSION
1.	美国有毒物质控制法案(TSCA)	
	Toxic Substances Control Act (TSCA)	
-	十溴二苯醚	符合
	Decabromodiphenyl Ether (DecaBDE)	PASS
-	异丙基化磷酸三苯酯	符合
	Phenol, Isopropylated Phosphate (PIP (3:1))	PASS
-	2,4,6-三叔丁基苯酚	符合
	2,4,6-tris(tert-butyl) phenol (2,4,6-TTBP)	PASS
-	六氯丁二烯	符合
	Hexachlorobutadiene (HCBD)	PASS
-	五氯苯硫酚	符合
	Pentachlorothiophenol (PCTP)	PASS
2.	根据客户要求, 对所提交样品中的铅(Pb), 镉(Cd), 汞(Hg), 六价铬(Cr(VI)), 多溴	
	联苯(PBBs), 多溴二苯醚(PBDEs), 邻苯二甲酸酯(DBP, BBP, DEHP, DIBP)进行	
	测试。	
	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).	
	********详细结果,请见下页*********	
	******* For further details, please refer to the following page(s) *******	****



A2210086079101E

检测报告 Test Report

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2 结论 Conclusion

报告编号

测试样品依据标准/指令结果Tested SampleAccording to standard/directiveResult農交样品
Submitted Sample欧盟 RoHS 指令 2011/65/EU 及其修订指令
(EU) 2015/863 RoHS Directive 2011/65/EU
with amendment (EU) 2015/863符合 PASS

符合表示检测结果满足欧盟RoHS指令2011/65/EU及其修订指令(EU) 2015/863要求的限值。

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.

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1.1 美国有毒物质控制法案(TSCA) Toxic Substances Control Act (TSCA)

▼十溴二苯醚 Decabromodiphenyl Ether (DecaBDE)

参考方法 US EPA 3550C:2007&US EPA 8270E:2018, 通过 GC-MS 分析。

Refer to method(s)US EPA 3550C:2007&US EPA 8270E:2018, and the item(s) was/were analyzed by GC-MS.

测试项目 Tested Item(s)	结果 Result (mg/kg)	报告检出限 Report Limit (mg/kg)	限值 Limit (mg/kg)
十溴二苯醚			
Decabromodiphenyl Ether	N.D.	50	N.D.
(DecaBDE)			

备注 Remark:

- N.D. = 未检出 Not Detected (小于报告检出限<Report Limit)
- mg/kg = ppm = 百万分之一 parts per million

▼异丙基化磷酸三苯酯 Phenol, Isopropylated Phosphate (PIP (3:1))

参考方法 US EPA 3550C:2007&US EPA 8270E:2018, 通过 GC-MS 分析。

Refer to method(s)US EPA 3550C:2007&US EPA 8270E:2018, and the item(s) was/were analyzed by GC-MS.

<u>测试项目 Tested Item(s)</u>	结果 Result (mg/kg)	<u>报告检出限</u> <u>Report Limit</u> (mg/kg)	限值 Limit (mg/kg)
异丙基化磷酸三苯酯			
Phenol, Isopropylated Phosphate	N.D.	50	N.D.
(PIP (3:1))			

备注 Remark:

- N.D. = 未检出 Not Detected (小于报告检出限<Report Limit)
- mg/kg = ppm = 百万分之一 parts per million



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▼2,4,6-三叔丁基苯酚 2,4,6-tris(tert-butyl) phenol (2,4,6-TTBP)

参考方法 US EPA 3550C:2007&US EPA 8270E:2018,通过 GC-MS 分析。

Refer to method(s)US EPA 3550C:2007&US EPA 8270E:2018, and the item(s) was/were analyzed by GC-MS.

测试项目 Tested Item(s)	结果 Result (mg/kg)	报告检出限 Report Limit (mg/kg)	限值 Limit (mg/kg)
2,4,6-三叔丁基苯酚			
2,4,6-tris(tert-butyl) phenol	N.D.	50	3000
(2,4,6-TTBP)			

备注 Remark:

- N.D. = 未检出 Not Detected (小于报告检出限<Report Limit)
- mg/kg = ppm = 百万分之一 parts per million

▼六氯丁二烯 Hexachlorobutadiene (HCBD)

参考方法 US EPA 3550C:2007&US EPA 8270E:2018, 通过 GC-MS 分析。

Refer to method(s)US EPA 3550C:2007&US EPA 8270E:2018, and the item(s) was/were analyzed by GC-MS.

测试项目 Tested Item(s)	结果 Result (mg/kg)	报告检出限 Report Limit (mg/kg)	限值 Limit (mg/kg)
六氯丁二烯 Hexachlorobutadiene (HCBD)	N.D.	50	N.D.

备注 Remark:

- N.D. = 未检出 Not Detected (小于报告检出限<Report Limit)
- mg/kg = ppm = 百万分之一 parts per million



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▼五氯苯硫酚 Pentachlorothiophenol (PCTP)

参考方法 US EPA 3550C:2007&US EPA 8270E:2018,通过 GC-MS 分析。

Refer to method(s)US EPA 3550C:2007&US EPA 8270E:2018, and the item(s) was/were analyzed by GC-MS.

测试项目 Tested Item(s)	结果 Result (mg/kg)	报告检出限 Report Limit (mg/kg)	限值 Limit (mg/kg)
五氯苯硫酚	N.D.	50	10000
Pentachlorothiophenol (PCTP)	IV.D.	30	10000

备注 Remark:

- N.D. = 未检出 Not Detected (小于报告检出限<Report Limit)

- mg/kg = ppm = 百万分之一 parts per million

样品/部位描述 黑色塑料颗粒

Sample/Part Description Black plastic grains



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2.1 检测依据 Test Method

测试项目	测试方法	测试仪器	
Tested Item(s)	Test Method	Measured Equipment(s)	
铅 Lead (Pb)	IEC 62321-5:2013	ICP-OES	
镉 Cadmium (Cd)	IEC 62321-5:2013	ICP-OES	
汞 Mercury (Hg)	IEC 62321-4:2013+AMD1:2017 CSV	ICP-OES	
	IEC 62321-7-2:2017 和/或 IEC		
→ 松樹 Harrandont Chroming (Cr(UI))	62321-5:2013 测试总铬含量	UV-Vis/ICP-OES	
六价铬 Hexavalent Chromium (Cr(VI))	IEC 62321-7-2:2017 and/or determination of	UV-VIS/ICP-UES	
	Total Chromium by IEC 62321-5:2013		
多溴联苯 Polybrominated Biphenyls	IEC 62321-6:2015	GC-MS	
(PBBs)	IEC 02321-0.2013	GC-MS	
多溴二苯醚 Polybrominated Diphenyl	IEC 62321-6:2015	GC-MS	
Ethers (PBDEs)	IEC 02321-0.2013	GC-MS	
邻苯二甲酸酯 Phthalates (DBP, BBP,	IEC 62321-8:2017	GC-MS	
DEHP, DIBP)	IEC 02321-8.2017	GC-MS	

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2.2 检测结果 Test Result(s)

测试项目 Tested Item(s)	结果 Result	方法检出限 MDL	限值 Limit
铅 Lead (Pb)	N.D.	2 mg/kg	1000 mg/kg
镉 Cadmium (Cd)	N.D.	2 mg/kg	100 mg/kg
汞 Mercury (Hg)	N.D.	2 mg/kg	1000 mg/kg
六价铬 Hexavalent Chromium (Cr(VI))	N.D.	8 mg/kg	1000 mg/kg

测试项目 Tested Item(s)	结果 Result	方法检出限	限值			
機區项目 Tested Item(s)	细末 Kesuit	MDL	Limit			
多溴联苯 Polybrominated Biphenyls (P	多溴联苯 Polybrominated Biphenyls (PBBs)					
一溴联苯 Monobromobiphenyl	N.D.	5 mg/kg				
二溴联苯 Dibromobiphenyl	N.D.	5 mg/kg				
三溴联苯 Tribromobiphenyl	N.D.	5 mg/kg				
四溴联苯 Tetrabromobiphenyl	N.D.	5 mg/kg				
五溴联苯 Pentabromobiphenyl	N.D.	5 mg/kg	1000 mg/kg			
六溴联苯 Hexabromobiphenyl	N.D.	5 mg/kg	1000 mg/kg			
七溴联苯 Heptabromobiphenyl	N.D.	5 mg/kg				
八溴联苯 Octabromobiphenyl	N.D.	5 mg/kg				
九溴联苯 Nonabromobiphenyl	N.D.	5 mg/kg				
十溴联苯 Decabromobiphenyl	N.D.	5 mg/kg				

测试项目 Tested Item(s)	结果 Result	方法检出限	限值		
视风项目 Tested Item(s)	细术 Kesuit	MDL	Limit		
多溴二苯醚 Polybrominated Diphenyl Ethers (PBDEs)					
一溴二苯醚 Monobromodiphenyl ether	N.D.	5 mg/kg			
二溴二苯醚 Dibromodiphenyl ether	N.D.	5 mg/kg			
三溴二苯醚 Tribromodiphenyl ether	N.D.	5 mg/kg			
四溴二苯醚 Tetrabromodiphenyl ether	N.D.	5 mg/kg			
五溴二苯醚 Pentabromodiphenyl ether	N.D.	5 mg/kg	1000 m a/lsa		
六溴二苯醚 Hexabromodiphenyl ether	N.D.	5 mg/kg	1000 mg/kg		
七溴二苯醚 Heptabromodiphenyl ether	N.D.	5 mg/kg			
八溴二苯醚 Octabromodiphenyl ether	N.D.	5 mg/kg			
九溴二苯醚 Nonabromodiphenyl ether	N.D.	5 mg/kg			
十溴二苯醚 Decabromodiphenyl ether	N.D.	5 mg/kg			

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测试项目 Tested Item(s)	结果 Result	方法检出限 MDL	限值 Limit			
邻苯二甲酸酯 Phthalates (DBP, BBP, DEHP, DIBP)						
邻苯二甲酸二丁酯 Dibutyl phthalate	N.D.	50 mg/lrg	1000 mg/lrg			
(DBP) CAS#:84-74-2	N.D.	50 mg/kg	1000 mg/kg			
邻苯二甲酸丁基苄基酯 Butyl benzyl	N.D.	50 mg/kg	1000 mg/kg			
phthalate (BBP) CAS#:85-68-7	N.D.	50 mg/kg	1000 mg/kg			
邻苯二甲酸二(2-乙基)己酯						
Di-(2-ethylhexyl) phthalate (DEHP)	N.D.	50 mg/kg	1000 mg/kg			
CAS#:117-81-7						
邻苯二甲酸二异丁酯 Diisobutyl	N.D.	50 mg/kg	1000 mg/kg			
phthalate (DIBP) CAS#:84-69-5	N.D.	Jo mg/kg	1000 mg/kg			

样品/部位描述

黑色塑料颗粒

Sample/Part Description

Black plastic grains

备注: 对于检测铅,镉,汞之样品已完全溶解。

- -N.D. = 未检出 (小于方法检出限)
- -mg/kg = ppm = 百万分之一
- -1000 mg/kg = 0.1%
- -LOQ = 定量限, 六价铬的定量限为 $0.10 \, \mu g/cm^2$
- -▼六价铬浓度小于 0.10 μg/cm², 样品未检出六价铬。

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
- -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.

注释: 本报告中的数据结果供科研、教学、企业内部质量控制、企业产品研发等目的用。

Note: The testing data and result(s) in this report is(are) just for scientific research, education,

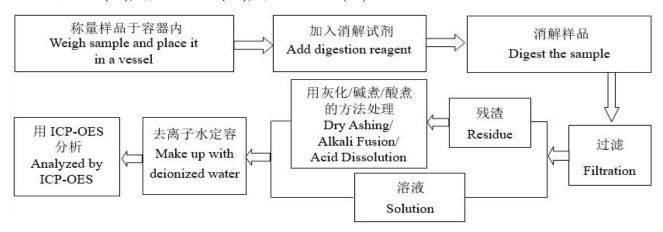
internal quality control and product development etc.



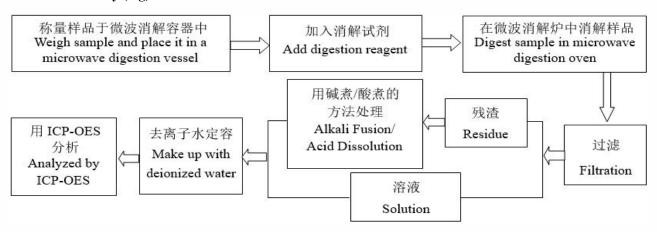
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2.3 检测流程 Test Process

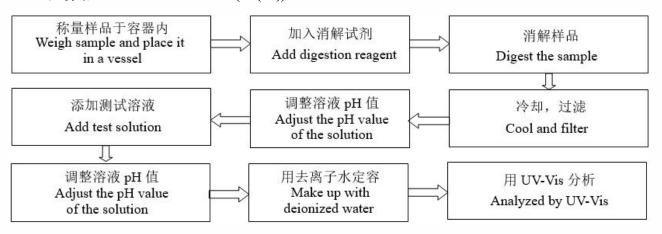
2.3.1. 铅 Lead (Pb), 镉 Cadmium (Cd), 铬 Chromium(Cr)



2.3.2. 汞 Mercury (Hg)



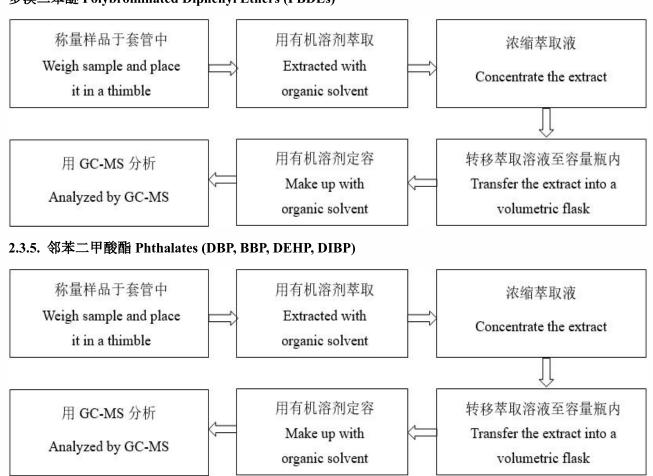
2.3.3. 六价铬 Hexavalent Chromium (Cr(VI))





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2.3.4. 多溴联苯 Polybrominated Biphenyls (PBBs), 多溴二苯醚 Polybrominated Diphenyl Ethers (PBDEs)





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样品图片

Photo(s) of the sample(s)



声明 Statement:

- 1. 检测报告无批准人签字、"专用章"及报告骑缝章无效;
 This report is considered invalid without approved signature, special seal and the seal on the perforation;
- 2. 报告抬头公司名称及地址、样品及样品信息由申请者提供,申请者应对其真实性负责,CTI未核实其 真实性;

The Company Name shown on Report and Address, the sample(s) and sample information was/were provided by the applicant who should be responsible for the authenticity which CTI hasn't verified;

- 3. 本报告检测结果仅对受测样品负责;
 - The result(s) shown in this report refer(s) only to the sample(s) tested;
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*** 报告结束 *** *** End of Report ***



Test Report No. CANEC2117633803 Date: 27 Sep 2021 Page 1 of 8

SHENZHEN CITY TONGHUA INDUSTRY CO.,LTD
TONGHUA MANSIN TONGLE XINBU VILLANG TOWN SHENZHEN CITY CHINA

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

SGS Job No. : CP21-051017 - SZ

Date of Sample Received: 18 Sep 2021

Testing Period: 18 Sep 2021 - 27 Sep 2021

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

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

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

Conclusion: Based on the performed tests on submitted sample(s), the results of Lead,

Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBBs),

Polybrominated diphenyl ethers (PBDEs) and Phthalates such as

Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP), and Diisobutyl phthalate (DIBP) comply with the limits as set by RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU.

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

Allie Chen

Allie Chen Approved Signatory





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Test Report No. CANEC2117633803 Date: 27 Sep 2021 Page 2 of 8

Test Results:

Test Part Description:

Specimen No. SGS Sample ID Description

> SN₁ CAN21-176338.003 Silver-gray plated metal

Remarks:

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

(2) MDL = Method Detection Limit

(3) ND = Not Detected (< MDL)

(4) "-" = Not Regulated

RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU

With reference to IEC 62321-4:2013+A1:2017, IEC 62321-5:2013, IEC 62321-7-1:2015, IEC Test Method: 62321-6:2015 and IEC 62321-8:2017, analyzed by ICP-OES, UV-Vis and GC-MS.

Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>003</u>
Cadmium (Cd)	100	mg/kg	2	ND
Lead (Pb)	1,000	mg/kg	2	37
Mercury (Hg)	1,000	mg/kg	2	ND
Hexavalent Chromium (Cr(VI))▼	-	µg/cm²	0.10	ND
Sum of PBBs	1,000	mg/kg	-	ND
Monobromobiphenyl	-	mg/kg	5	ND
Dibromobiphenyl	-	mg/kg	5	ND
Tribromobiphenyl	-	mg/kg	5	ND
Tetrabromobiphenyl	-	mg/kg	5	ND
Pentabromobiphenyl	-	mg/kg	5	ND
Hexabromobiphenyl	-	mg/kg	5	ND
Heptabromobiphenyl	-	mg/kg	5	ND
Octabromobiphenyl	-	mg/kg	5	ND
Nonabromobiphenyl	-	mg/kg	5	ND
Decabromobiphenyl	-	mg/kg	5	ND
Sum of PBDEs	1,000	mg/kg	-	ND
Monobromodiphenyl ether	-	mg/kg	5	ND
Dibromodiphenyl ether	-	mg/kg	5	ND
Tribromodiphenyl ether	-	mg/kg	5	ND
Tetrabromodiphenyl ether	-	mg/kg	5	ND
Pentabromodiphenyl ether	-	mg/kg	5	ND



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No. CANEC21176338	03	Date: 2	27 Sep 2021	Page 3 of 8
<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>003</u>	
-	mg/kg	5	ND	
-	mg/kg	5	ND	
-	mg/kg	5	ND	
-	mg/kg	5	ND	
-	mg/kg	5	ND	
1000	mg/kg	50	ND	
1000	mg/kg	50	ND	
1000	mg/kg	50	ND	
1000	mg/kg	50	ND	
	Limit 1000 1000	- mg/kg - mg/kg - mg/kg - mg/kg - mg/kg 1000 mg/kg 1000 mg/kg 1000 mg/kg	Limit Unit MDL - mg/kg 5 - mg/kg 5 - mg/kg 5 - mg/kg 5 1000 mg/kg 50 1000 mg/kg 50 1000 mg/kg 50	Limit Unit MDL 003 - mg/kg 5 ND - mg/kg 5 ND - mg/kg 5 ND - mg/kg 5 ND 1000 mg/kg 50 ND 1000 mg/kg 50 ND 1000 mg/kg 50 ND 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 https://www.cenelec.eu/dyn/www/f?p=104:30:1742232870351101::::FSP_ORG_ID,FSP_LANG_ID:12586 37.25
- (3) ▼= a. The sample is positive for CrVI if the CrVI concentration is greater than 0.13 µg/cm². The sample coating is considered to contain CrVI
 - b. The sample is negative for CrVI if CrVI is ND (concentration less than 0.10 μg/cm²). The coating is considered a non-CrVI 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.

Perfluorooctanoic acid (PFOA) and its salts & Perfluorooctane sulfonates (PFOS) and its derivatives

Test Method: With reference to CEN/TS15968:2010, analysis was performed by LC-MS or LC-MS/MS.

Test Item(s)	CAS NO.	<u>Unit</u>	<u>MDL</u>	<u>003</u>
Perfluorooctanoic acid (PFOA) and its salts+	335-67-1	mg/kg	0.010	ND
Perfluorooctane sulfonates (PFOS) ^	1763-23-1	mg/kg	0.010	ND
Perfluorooctane Sulfonamide (PFOSA)	754-91-6	mg/kg	0.010	ND
N-methylperfluoro-1-octanesulfonamide(MeFOSA)	31506-32-8	mg/kg	0.010	ND
N-ethylperfluoro-1-octanesulfonamide (EtFOSA)	4151-50-2	mg/kg	0.010	ND
2-(N-methylperfluoro-1-octanesulfonamido) -ethanol(MeFOSE)	24448-09-7	mg/kg	0.010	ND
2-(N-ethylperfluoro-1-octanesulfonamido) -ethanol(EtFOSE)	1691-99-2	mg/kg	0.010	ND
Perfluorooctane sulfonates (PFOS) and its derivatives	-	mg/kg	-	ND



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Date: 27 Sep 2021

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Notes:

(1) + PFOA and its salts 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) and APFO (CAS No.: 3825-26-1); (2) ^ PFOS including PFOS-K (CAS No.: 2795-39-3), PFOS-Li (CAS No.: 29457-72-5), PFOS-NH₄ (CAS No.: 29081-56-9), PFOS-NH(OH)₂ (CAS No.: 70225-14-8), PFOS-N(C₂H₅)₄ (CAS No.: 56773-42-3), PFOS-DDA(CAS No.:251099-16-8) and POSF (CAS No.: 307-35-7)



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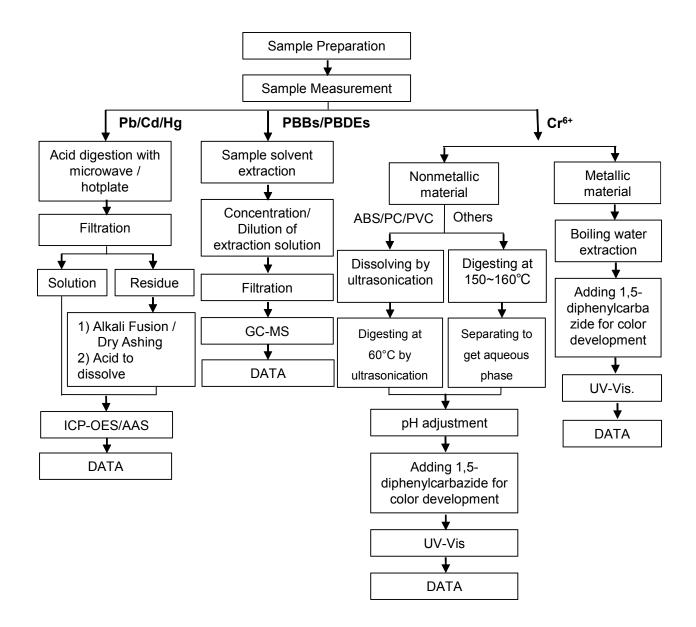
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Pb/Cd/Hg/Cr6+/PBBs/PBDEs Testing Flow Chart

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





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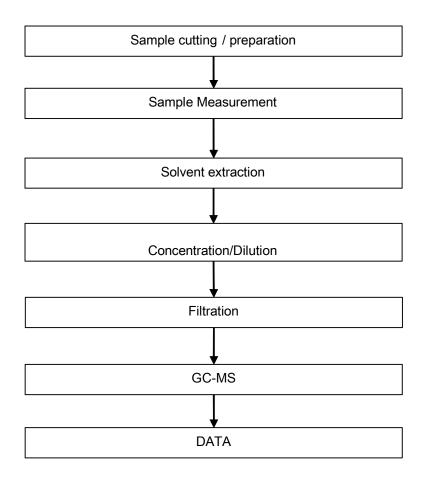


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ATTACHMENTS

Phthalates Testing Flow Chart





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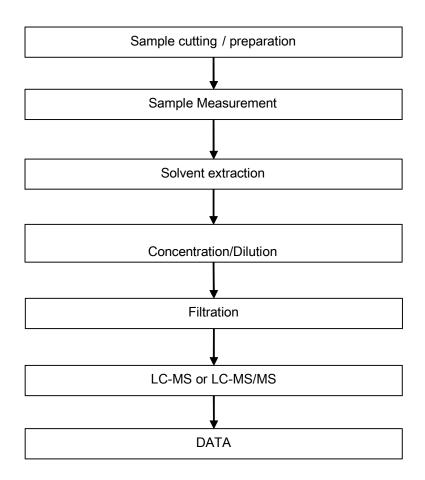
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PFOA / PFOS Testing Flow Chart





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Date: 27 Sep 2021

Sample photo:



SGS authenticate the photo on original report only

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Test Report No. CANEC2117633802 Date: 27 Sep 2021 Page 1 of 8

SHENZHEN CITY TONGHUA INDUSTRY CO.,LTD
TONGHUA MANSIN TONGLE XINBU VILLANG TOWN SHENZHEN CITY CHINA

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

SGS Job No. : CP21-051017 - SZ

Date of Sample Received: 18 Sep 2021

Testing Period: 18 Sep 2021 - 27 Sep 2021

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

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

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

Conclusion: Based on the performed tests on submitted sample(s), the results of Lead,

Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBBs),

Polybrominated diphenyl ethers (PBDEs) and Phthalates such as

Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP), and Diisobutyl phthalate (DIBP) comply with the limits as set by RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU.

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

Allie Chen

Allie Chen Approved Signatory





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Test Report No. CANEC2117633802 Date: 27 Sep 2021 Page 2 of 8

Test Results:

Test Part Description:

Specimen No. SGS Sample ID Description

SN₁ CAN21-176338.002 Silver-gray plated metal

Remarks:

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

(2) MDL = Method Detection Limit

(3) ND = Not Detected (< MDL)

(4) "-" = Not Regulated

RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU

With reference to IEC 62321-4:2013+A1:2017, IEC 62321-5:2013, IEC 62321-7-1:2015, IEC Test Method: 62321-6:2015 and IEC 62321-8:2017, analyzed by ICP-OES, UV-Vis and GC-MS.

Cadmium (Cd) 100 mg/kg 2 ND Lead (Pb) 1,000 mg/kg 2 29 Mercury (Hg) 1,000 mg/kg 2 ND Hexavalent Chromium (Cr(VI))▼ - μg/cm² 0.10 ND Sum of PBBs 1,000 mg/kg - ND Monobromobiphenyl - mg/kg 5 ND Dibromobiphenyl - mg/kg 5 ND Tribromobiphenyl - mg/kg 5 ND Tetrabromobiphenyl - mg/kg 5 ND Pentabromobiphenyl - mg/kg 5 ND	Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>002</u>
Mercury (Hg) 1,000 mg/kg 2 ND Hexavalent Chromium (Cr(VI))▼ - μg/cm² 0.10 ND Sum of PBBs 1,000 mg/kg - ND Monobromobiphenyl - mg/kg 5 ND Dibromobiphenyl - mg/kg 5 ND Tribromobiphenyl - mg/kg 5 ND Tetrabromobiphenyl - mg/kg 5 ND	Cadmium (Cd)	100	mg/kg	2	ND
Hexavalent Chromium (Cr(VI))▼-μg/cm²0.10NDSum of PBBs1,000mg/kg-NDMonobromobiphenyl-mg/kg5NDDibromobiphenyl-mg/kg5NDTribromobiphenyl-mg/kg5NDTetrabromobiphenyl-mg/kg5ND	Lead (Pb)	1,000	mg/kg	2	29
Sum of PBBs 1,000 mg/kg - ND Monobromobiphenyl - mg/kg 5 ND Dibromobiphenyl - mg/kg 5 ND Tribromobiphenyl - mg/kg 5 ND Tetrabromobiphenyl - mg/kg 5 ND	Mercury (Hg)	1,000	mg/kg	2	ND
Monobromobiphenyl-mg/kg5NDDibromobiphenyl-mg/kg5NDTribromobiphenyl-mg/kg5NDTetrabromobiphenyl-mg/kg5ND	Hexavalent Chromium (Cr(VI))▼	-	µg/cm²	0.10	ND
Dibromobiphenyl - mg/kg 5 ND Tribromobiphenyl - mg/kg 5 ND Tetrabromobiphenyl - mg/kg 5 ND	Sum of PBBs	1,000	mg/kg	-	ND
Tribromobiphenyl - mg/kg 5 ND Tetrabromobiphenyl - mg/kg 5 ND	Monobromobiphenyl	-	mg/kg	5	ND
Tetrabromobiphenyl - mg/kg 5 ND	Dibromobiphenyl	-	mg/kg	5	ND
	Tribromobiphenyl	-	mg/kg	5	ND
Pentabromobiphenyl - mg/kg 5 ND	Tetrabromobiphenyl	-	mg/kg	5	ND
	Pentabromobiphenyl	-	mg/kg	5	ND
Hexabromobiphenyl - mg/kg 5 ND	Hexabromobiphenyl	-	mg/kg	5	ND
Heptabromobiphenyl - mg/kg 5 ND	Heptabromobiphenyl	-	mg/kg	5	ND
Octabromobiphenyl - mg/kg 5 ND	Octabromobiphenyl	-	mg/kg	5	ND
Nonabromobiphenyl - mg/kg 5 ND	Nonabromobiphenyl	-	mg/kg	5	ND
Decabromobiphenyl - mg/kg 5 ND	Decabromobiphenyl	-	mg/kg	5	ND
Sum of PBDEs 1,000 mg/kg - ND	Sum of PBDEs	1,000	mg/kg	-	ND
Monobromodiphenyl ether - mg/kg 5 ND	Monobromodiphenyl ether	-	mg/kg	5	ND
Dibromodiphenyl ether - mg/kg 5 ND	Dibromodiphenyl ether	-	mg/kg	5	ND
Tribromodiphenyl ether - mg/kg 5 ND	Tribromodiphenyl ether	-	mg/kg	5	ND
Tetrabromodiphenyl ether - mg/kg 5 ND	Tetrabromodiphenyl ether	-	mg/kg	5	ND
Pentabromodiphenyl ether - mg/kg 5 ND	Pentabromodiphenyl ether	-	mg/kg	5	ND



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Test Report	No. CANEC21176338	02	Date: 2	27 Sep 2021	Page 3 of 8
Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>002</u>	
Hexabromodiphenyl ether	-	mg/kg	5	ND	
Heptabromodiphenyl ether	-	mg/kg	5	ND	
Octabromodiphenyl ether	-	mg/kg	5	ND	
Nonabromodiphenyl ether	-	mg/kg	5	ND	
Decabromodiphenyl ether	-	mg/kg	5	ND	
Dibutyl phthalate (DBP)	1000	mg/kg	50	ND	
Butyl benzyl phthalate (BBP)	1000	mg/kg	50	ND	
Bis (2-ethylhexyl) phthalate (DEHP)	1000	mg/kg	50	ND	
Diisobutyl Phthalates (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 https://www.cenelec.eu/dyn/www/f?p=104:30:1742232870351101::::FSP_ORG_ID,FSP_LANG_ID:12586 37.25
- (3) ▼= a. The sample is positive for CrVI if the CrVI concentration is greater than 0.13 µg/cm². The sample coating is considered to contain CrVI
 - b. The sample is negative for CrVI if CrVI is ND (concentration less than 0.10 μg/cm²). The coating is considered a non-CrVI 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.

Perfluorooctanoic acid (PFOA) and its salts & Perfluorooctane sulfonates (PFOS) and its derivatives

Test Method: With reference to CEN/TS15968:2010, analysis was performed by LC-MS or LC-MS/MS.

Test Item(s)	CAS NO.	<u>Unit</u>	<u>MDL</u>	<u>002</u>
Perfluorooctanoic acid (PFOA) and its salts+	335-67-1	mg/kg	0.010	ND
Perfluorooctane sulfonates (PFOS) ^	1763-23-1	mg/kg	0.010	ND
Perfluorooctane Sulfonamide (PFOSA)	754-91-6	mg/kg	0.010	ND
N-methylperfluoro-1-octanesulfonamide(MeFOSA)	31506-32-8	mg/kg	0.010	ND
N-ethylperfluoro-1-octanesulfonamide (EtFOSA)	4151-50-2	mg/kg	0.010	ND
2-(N-methylperfluoro-1-octanesulfonamido) -ethanol(MeFOSE)	24448-09-7	mg/kg	0.010	ND
2-(N-ethylperfluoro-1-octanesulfonamido) -ethanol(EtFOSE)	1691-99-2	mg/kg	0.010	ND
Perfluorooctane sulfonates (PFOS) and its derivatives	-	mg/kg	-	ND



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Notes:

(1) + PFOA and its salts 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) and APFO (CAS No.: 3825-26-1); (2) ^ PFOS including PFOS-K (CAS No.: 2795-39-3), PFOS-Li (CAS No.: 29457-72-5), PFOS-NH₄ (CAS No.: 29081-56-9), PFOS-NH(OH)₂ (CAS No.: 70225-14-8), PFOS-N(C₂H₅)₄ (CAS No.: 56773-42-3), PFOS-DDA(CAS No.:251099-16-8) and POSF (CAS No.: 307-35-7)



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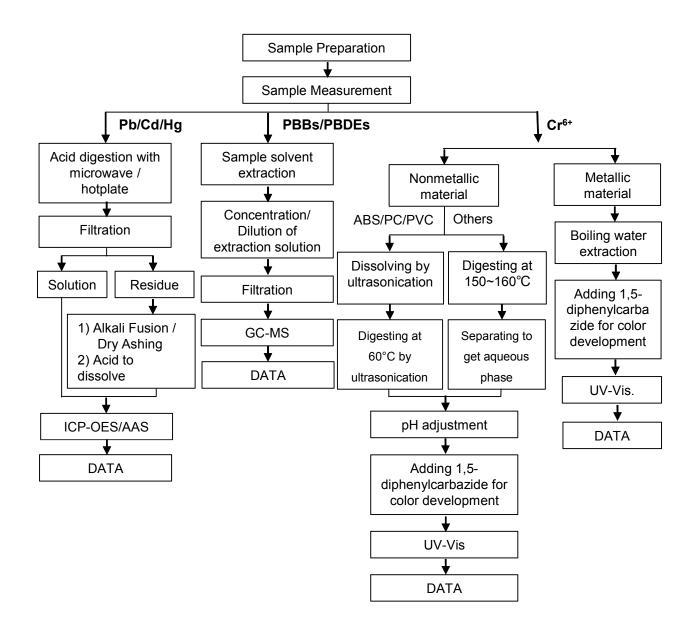
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Pb/Cd/Hg/Cr6+/PBBs/PBDEs Testing Flow Chart

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





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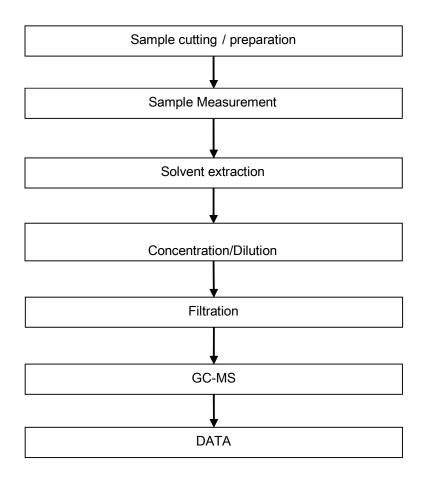
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Phthalates Testing Flow Chart





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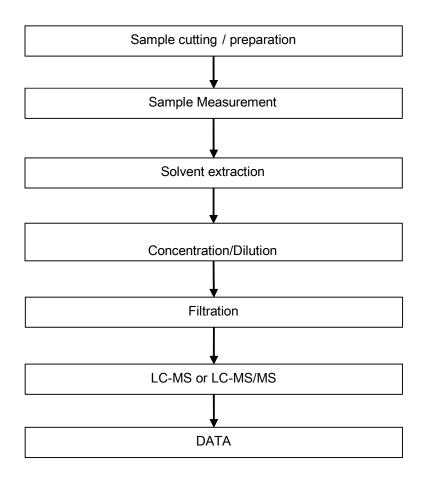
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PFOA / PFOS Testing Flow Chart





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Date: 27 Sep 2021

Sample photo:



SGS authenticate the photo on original report only

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Test Report No. CANEC2117633801 Date: 27 Sep 2021 Page 1 of 8

SHENZHEN CITY TONGHUA INDUSTRY CO.,LTD
TONGHUA MANSIN TONGLE XINBU VILLANG TOWN SHENZHEN CITY CHINA

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

SGS Job No. : CP21-051017 - SZ

Date of Sample Received: 18 Sep 2021

Testing Period: 18 Sep 2021 - 27 Sep 2021

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

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

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

Conclusion: Based on the performed tests on submitted sample(s), the results of Lead,

Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBBs),

Polybrominated diphenyl ethers (PBDEs) and Phthalates such as

Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP), and Diisobutyl phthalate (DIBP) comply with the limits as set by

RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU.

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

Allie Chen

Allie Chen Approved Signatory





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Test Report Page 2 of 8 No. CANEC2117633801 Date: 27 Sep 2021

Test Results:

Test Part Description:

Specimen No. SGS Sample ID Description SN₁ CAN21-176338.001 Gold plated metal

Remarks:

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

(2) MDL = Method Detection Limit

(3) ND = Not Detected (< MDL)

(4) "-" = Not Regulated

RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU

With reference to IEC 62321-4:2013+A1:2017, IEC 62321-5:2013, IEC 62321-7-1:2015, IEC Test Method: 62321-6:2015 and IEC 62321-8:2017, analyzed by ICP-OES, UV-Vis and GC-MS.

Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>
Cadmium (Cd)	100	mg/kg	2	ND
Lead (Pb)	1,000	mg/kg	2	73
Mercury (Hg)	1,000	mg/kg	2	ND
Hexavalent Chromium (Cr(VI))▼	-	µg/cm²	0.10	ND
Sum of PBBs	1,000	mg/kg	-	ND
Monobromobiphenyl	-	mg/kg	5	ND
Dibromobiphenyl	-	mg/kg	5	ND
Tribromobiphenyl	-	mg/kg	5	ND
Tetrabromobiphenyl	-	mg/kg	5	ND
Pentabromobiphenyl	-	mg/kg	5	ND
Hexabromobiphenyl	-	mg/kg	5	ND
Heptabromobiphenyl	-	mg/kg	5	ND
Octabromobiphenyl	-	mg/kg	5	ND
Nonabromobiphenyl	-	mg/kg	5	ND
Decabromobiphenyl	-	mg/kg	5	ND
Sum of PBDEs	1,000	mg/kg	-	ND
Monobromodiphenyl ether	-	mg/kg	5	ND
Dibromodiphenyl ether	-	mg/kg	5	ND
Tribromodiphenyl ether	-	mg/kg	5	ND
Tetrabromodiphenyl ether	-	mg/kg	5	ND
Pentabromodiphenyl ether	-	mg/kg	5	ND



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<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>	
-	mg/kg	5	ND	
-	mg/kg	5	ND	
-	mg/kg	5	ND	
-	mg/kg	5	ND	
-	mg/kg	5	ND	
1000	mg/kg	50	ND	
1000	mg/kg	50	ND	
1000	mg/kg	50	ND	
1000	mg/kg	50	ND	
	Limit 1000 1000	Limit Unit - mg/kg - mg/kg - mg/kg - mg/kg - mg/kg - mg/kg 1000 mg/kg 1000 mg/kg	Limit Unit MDL - mg/kg 5 - mg/kg 5 - mg/kg 5 - mg/kg 5 1000 mg/kg 50 1000 mg/kg 50 1000 mg/kg 50 1000 mg/kg 50	Limit Unit MDL 001 - mg/kg 5 ND - mg/kg 5 ND - mg/kg 5 ND - mg/kg 5 ND 1000 mg/kg 50 ND 1000 mg/kg 50 ND 1000 mg/kg 50 ND 1000 mg/kg 50 ND

Notes:

- (1) The maximum permissible limit is quoted from RoHS Directive (EU) 2015/863.
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- (3) ▼= a. The sample is positive for CrVI if the CrVI concentration is greater than 0.13 µg/cm². The sample coating is considered to contain CrVI
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 - 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.

Perfluorooctanoic acid (PFOA) and its salts & Perfluorooctane sulfonates (PFOS) and its derivatives

Test Method: With reference to CEN/TS15968:2010, analysis was performed by LC-MS or LC-MS/MS.

Test Item(s)	CAS NO.	<u>Unit</u>	<u>MDL</u>	<u>001</u>
Perfluorooctanoic acid (PFOA) and its salts+	335-67-1	mg/kg	0.010	ND
Perfluorooctane sulfonates (PFOS) ^	1763-23-1	mg/kg	0.010	ND
Perfluorooctane Sulfonamide (PFOSA)	754-91-6	mg/kg	0.010	ND
N-methylperfluoro-1-octanesulfonamide(MeFOSA)	31506-32-8	mg/kg	0.010	ND
N-ethylperfluoro-1-octanesulfonamide (EtFOSA)	4151-50-2	mg/kg	0.010	ND
2-(N-methylperfluoro-1-octanesulfonamido) -ethanol(MeFOSE)	24448-09-7	mg/kg	0.010	ND
2-(N-ethylperfluoro-1-octanesulfonamido) -ethanol(EtFOSE)	1691-99-2	mg/kg	0.010	ND
Perfluorooctane sulfonates (PFOS) and its derivatives	-	mg/kg	-	ND



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Test Report Date: 27 Sep 2021 Page 4 of 8 No. CANEC2117633801

Notes:

(1) + PFOA and its salts 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) and APFO (CAS No.: 3825-26-1); (2) ^ PFOS including PFOS-K (CAS No.: 2795-39-3), PFOS-Li (CAS No.: 29457-72-5), PFOS-NH₄ (CAS No.: 29081-56-9), PFOS-NH(OH)₂ (CAS No.: 70225-14-8), PFOS-N(C₂H₅)₄ (CAS No.: 56773-42-3), PFOS-DDA(CAS No.:251099-16-8) and POSF (CAS No.: 307-35-7)



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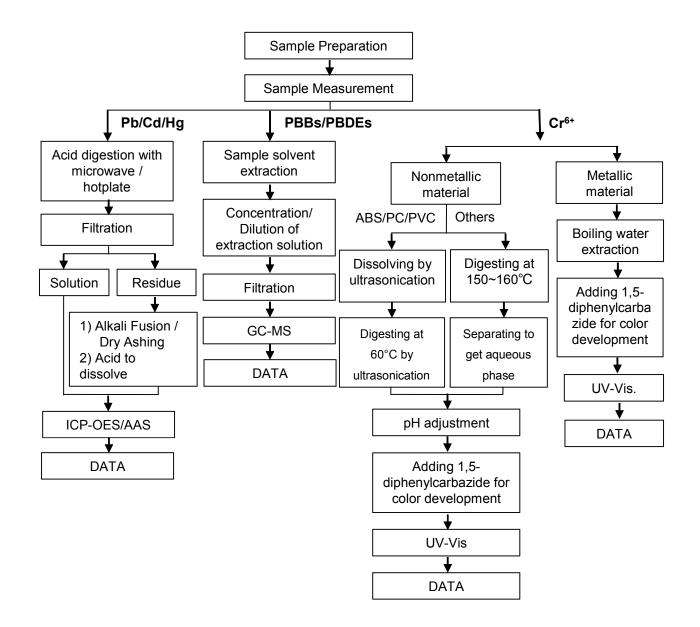
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Pb/Cd/Hg/Cr6+/PBBs/PBDEs Testing Flow Chart

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





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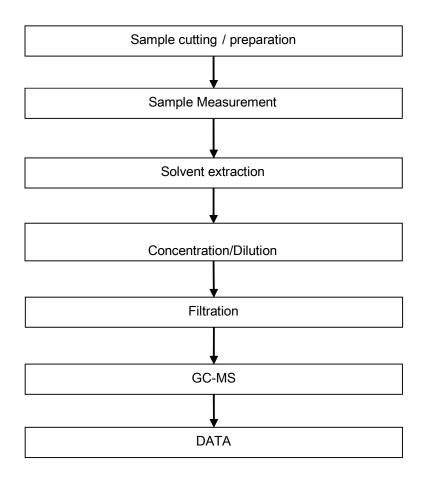


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Phthalates Testing Flow Chart





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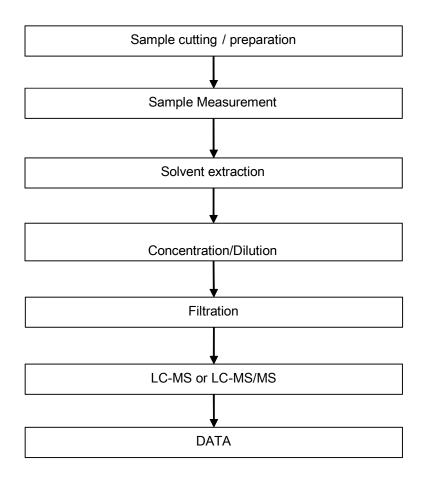
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ATTACHMENTS

PFOA / PFOS Testing Flow Chart





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Sample photo:



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