



規格承認書  
Specification for Approval

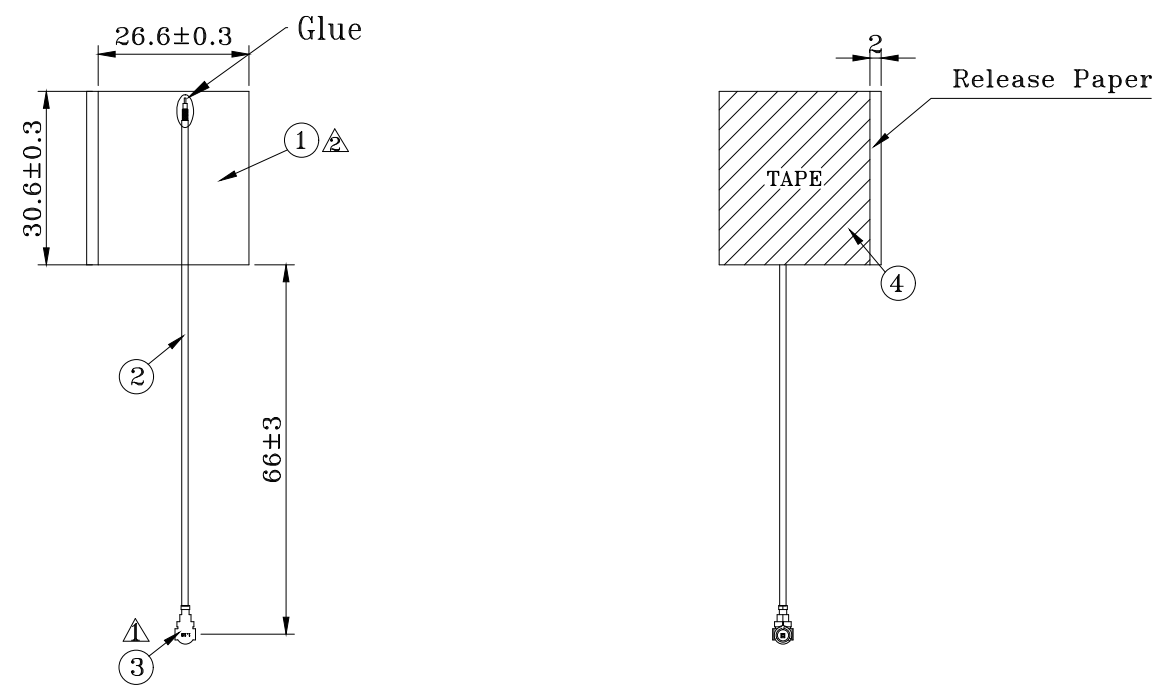
客 戶： 喬暘  
Customer  
品 名： BT ANTENNA  
Part name  
料 號： ARY196-4044-010-00  
Part No.

客戶承認印 CUSTOMER APPROVED BY		
APPROVAL	CHIEF	SUPERVISOR
Approval No.		
Model		
Part No. 1029-0A00212		
環保要求: <input checked="" type="checkbox"/> RoHS 2.0 <input checked="" type="checkbox"/> REACH <input checked="" type="checkbox"/> ZyluxQMI-P40-01		

CHIEF	SALES	CHIEF	ENGINEER
ROX	Michelle	ROX	WAH
Date: 2023/12/21		Date: 2023/12/21	
東莞驊國電子有限公司 WIESON TECHNOLOGIES CO., LTD.			

RoHS Compliant

REV	DATE	DESCRIPTION	ECN NO.	NAME
A1	23.12.15	PROPOSAL		DAVID
A2	23.12.18	⚠ Connector Position		DAVID
A3	23.12.21	⚠ Modify printing		DAVID



CUST NO.:

WIESON TECHNOLOGIES CO., LTD  
WIESON

PART NO.:  
ARY196-4044-010-00

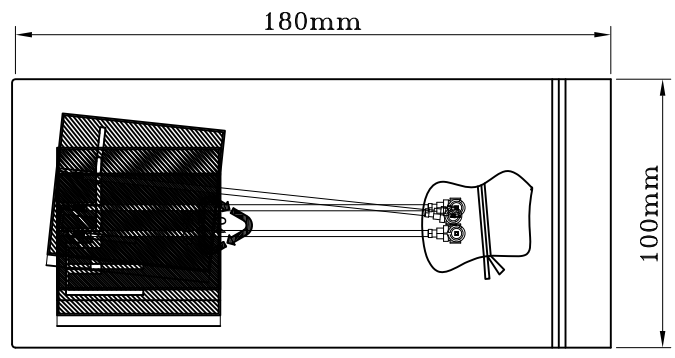
TITLE:  
BT Antenna

④	Tape	G9000 , Size:29.8 x 25.8mm	1		
③	Connector	MHF I Plug For 1.13mm Cable , Gold Plated	1	DRAWN BY	DAVID(WST)
②	Cable	1.13mm Low Loss Coaxial Cable , FEP Black Jacket	1	CHECKED BY	
①	PCB	FR-4 , Size: 30.6 x 26.6 x 0.8mm	1	APPROVED BY	
NO.	ITEM	DESCRIPTION	QTY	SORTING NO.	WSC
					PAGE
					1 OF 1

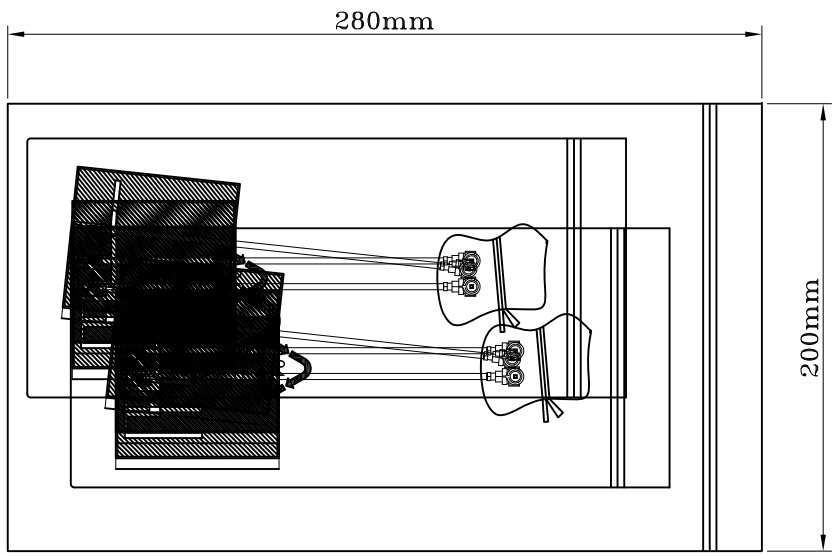
**RoHS Compliant**

REV	DATE	DESCRIPTION	ECN NO.	NAME
A1	23.12.28	PROPOSAL		WAH

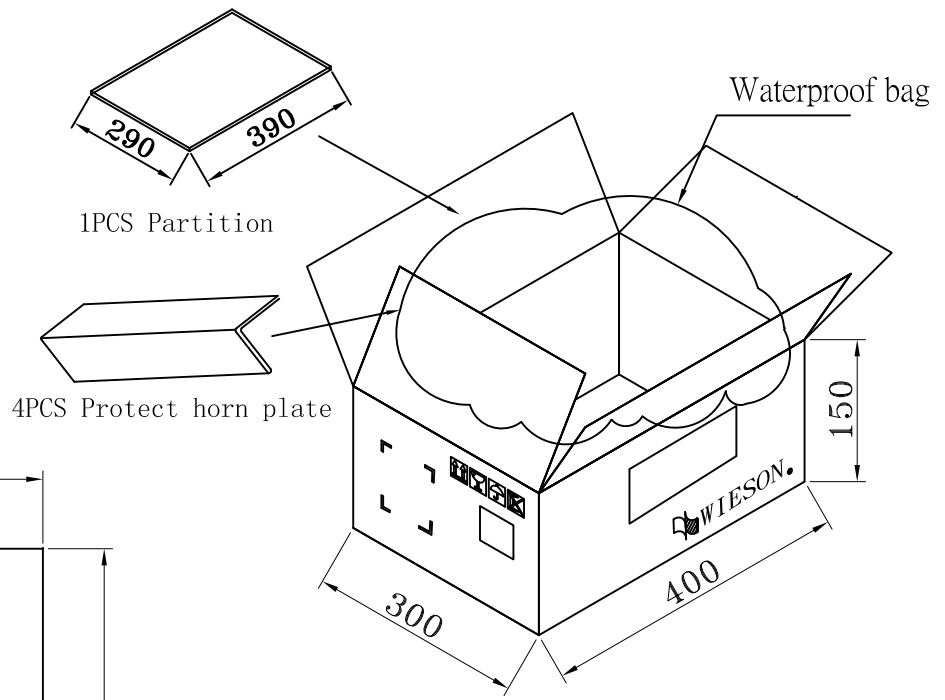
A  
B  
C  
D  
E



20PCS/SMALL BAG



200PCS/ MID BAG



Cartons:400\*300\*150MM

CUST NO.:

**WIESON TECHNOLOGIES CO., LTD**  
WIESON

PART NO.:  
ARY196-4044-010-00

TITLE: <b>BT Antenna</b>			
DRAWN BY	WAH	DRAWING NO.	ARY196-4044-010-00
CHECKED BY		DRAWING SIZE	A4
APPROVED BY		UNIT	mm
SORTING NO.	WSC	PAGE	1 OF 1



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*WIESON*



				Approvals	
Rev	Date	Description	Edited by	Prepared :	WAH
01	2023/12/21	ISSUE	WAH	Checked :	FOUNTAIN
				Approved :	ROX
				Issued No :	01
				Sheet :	<b>1 OF 124</b>



**WIESON TECHNOLOGIES CO.,LTD**

***BILL OF MATERIAL***

Cust.		TITLE	BT Antenna				
Cust.P/N		WIESON P/N	ARY196-4044-010-00				
NO.	DESCRIPTION	SUPPLIER	SUPPLIER PART NO.	UL NO.	AVL	QUANTITY	REMARK
1	FR-4 , Size: 30.6 x 26.6 x 0.8mm	/	/	/	/	PCS	/
2	1.13mm Low Loss Coaxial Cable , FEP Black Jacket	/	/	/	/	MM	/
3	MHF I Plug For 1.13mm Cable , Gold Plated	/	/	/	/	PCS	/
4	G9000 , Size:29.8 x 25.8mm	/	/	/	/	PCS	/
5							
6							
7							
8							

**APPROVED BY: ROX**

**CHECKD BY: FOUNTAIN**

**DESIGNED BY: WAH**

## 检测报告

编号: SHAEC2301433912

日期: 2023年03月03日 第1页,共13页

客户名称: 江苏广信感光新材料股份有限公司  
客户地址: 江阴市青阳镇工业集中区华澄路18号

样品名称: 液态感光阻焊油墨  
型号: KSM-S6189BK  
料号: KSM-19  
客户参考信息: 以75°C预烤3小时; 150°C2小时固化  
以上样品及信息由客户提供。

SGS工作编号: TIC1020230224093601TI6M - SUZ  
样品接收日期: 2023年02月28日  
检测周期: 2023年02月28日 - 2023年03月03日  
检测要求: 根据客户要求检测  
检测方法: 请参见下一页  
检测结果: 请参见下一页

结论: 基于所送样品进行的检测, 镉、铅、汞、六价铬、多溴联苯(PBBs)、多溴二苯醚(PBDEs)、邻苯二甲酸酯(如邻苯二甲酸二丁酯(DBP)、邻苯二甲酸丁苯酯(BBP)、邻苯二甲酸二(2-乙基己基)酯(DEHP)和邻苯二甲酸二异丁酯(DIBP))的检测结果显示符合欧盟RoHS指令2011/65/EU附录II的修正指令(EU) 2015/863的限值要求。

通标标准技术服务(上海)有限公司  
授权签名

刘盈妹

Annie Liu 刘盈妹  
批准签署人

scan to see the report



D2D241A4



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## 检测报告

编号: SHAEC2301433912

日期: 2023年03月03日 第2页,共13页

检测结果:

### 检测样品描述:

样品编号	SGS样品ID	描述
SN1	SHA23-014339.006	黑色固体

备注:

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

### RoHS指令2011/65/EU附录II的修正指令(EU) 2015/863

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, UV-Vis和GC-MS进行分析。

检测项目	限值	单位	MDL	006
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))	1000	mg/kg	8	ND
多溴联苯之和(PBBs)	1000	mg/kg	-	ND
一溴联苯	-	mg/kg	5	ND
二溴联苯	-	mg/kg	5	ND
三溴联苯	-	mg/kg	5	ND
四溴联苯	-	mg/kg	5	ND
五溴联苯	-	mg/kg	5	ND
六溴联苯	-	mg/kg	5	ND
七溴联苯	-	mg/kg	5	ND
八溴联苯	-	mg/kg	5	ND
九溴联苯	-	mg/kg	5	ND
十溴联苯	-	mg/kg	5	ND
多溴二苯醚之和(PBDEs)	1000	mg/kg	-	ND
一溴二苯醚	-	mg/kg	5	ND
二溴二苯醚	-	mg/kg	5	ND
三溴二苯醚	-	mg/kg	5	ND
四溴二苯醚	-	mg/kg	5	ND



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## 检测报告

编号: SHAEC2301433912

日期: 2023年03月03日 第3页,共13页

检测项目	限值	单位	MDL	006
五溴二苯醚	-	mg/kg	5	ND
六溴二苯醚	-	mg/kg	5	ND
七溴二苯醚	-	mg/kg	5	ND
八溴二苯醚	-	mg/kg	5	ND
九溴二苯醚	-	mg/kg	5	ND
十溴二苯醚	-	mg/kg	5	ND
邻苯二甲酸二丁酯 (DBP)	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(2-乙基己基)酯(DEHP)	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。  
IEC 62321系列等同于 EN 62321系列

(2) 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。

## 元素

检测方法: 参照US EPA 方法3052:1996测定, 采用ICP-OES进行分析。

检测项目	单位	MDL	006
砷 (As)	mg/kg	10	ND

## 六溴环十二烷(HBCDD)

检测方法: 参照US EPA 3550C: 2007, 采用GC-MS进行分析。

检测项目	CAS NO.	单位	MDL	006
六溴环十二烷 (HBCDD/HBCD)	25637-99-4, 3194-55-6	mg/kg	10	ND

## 邻苯二甲酸盐(或酯)

检测方法: 参照EN 14372: 2004的方法测定, 采用GC-MS进行分析。



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## 检测报告

编号: SHAEC2301433912

日期: 2023年03月03日

第4页,共13页

检测项目	CAS NO.	单位	MDL	006
邻苯二甲酸二丁酯(DBP)	84-74-2	%	0.003	ND
邻苯二甲酸丁苄酯 (BBP)	85-68-7	%	0.003	ND
邻苯二甲酸二(2-乙基己基)酯 (DEHP)	117-81-7	%	0.003	ND
邻苯二甲酸二异壬酯 (DINP)	28553-12-0/ 68515-48-0	%	0.01	ND
邻苯二甲酸二正辛酯 (DNOP)	117-84-0	%	0.003	ND
邻苯二甲酸二异癸酯 (DIDP)	26761-40-0 /68515-49-1	%	0.01	ND
邻苯二甲酸二甲酯 (DMP)	131-11-3	%	0.003	ND
邻苯二甲酸二乙酯 (DEP)	84-66-2	%	0.003	ND
邻苯二甲酸二异丁酯(DIBP)	84-69-5	%	0.003	ND
邻苯二甲酸二戊酯 (DnPP)	131-18-0	%	0.003	ND
邻苯二甲酸二环己酯 (DCHP)	84-61-7	%	0.003	ND
邻苯二甲酸二苯酯 (DPhP)	84-62-8	%	0.003	ND
邻苯二甲酸二苄酯(DBzP)	523-31-9	%	0.003	ND
邻苯二甲酸二异辛酯 (DiOP)	27554-26-3	%	0.01	ND
邻苯二甲酸二丙酯 (DPPrP)	131-16-8	%	0.003	ND
邻苯二甲酸二壬酯 (DNP)	84-76-4	%	0.003	ND
邻苯二甲酸二正己酯(DnHP)	84-75-3	%	0.003	ND
邻苯二甲酸二(2-甲氧基乙基)酯(DMEP)	117-82-8	%	0.003	ND

### 全氟辛烷磺酸 (PFOS)及衍生物和全氟辛酸(PFOA)

检测方法: 参考 CEN/TS 15968: 2010方法, 采用HPLC-MS 或LC-MS-MS进行分析。

检测项目	CAS NO.	单位	MDL	006
全氟辛烷磺酸(PFOS)及衍生物		mg/kg	-	ND
全氟辛烷磺酸(PFOS) <sup>^</sup>	1763-23-1	mg/kg	0.01	ND
2-(N-甲基全氟辛基磺酰胺)乙醇 (MeFOSE)	24448-09-7	mg/kg	0.01	ND
2-(N-乙基全氟辛基磺酰胺)乙醇 (EtFOSE)	1691-99-2	mg/kg	0.01	ND
N-甲基全氟辛烷磺酰胺 (MeFOSA)	31506-32-8	mg/kg	0.01	ND
N-乙基全氟辛烷磺酰胺 (EtFOSA)	4151-50-2	mg/kg	0.01	ND
全氟辛基磺酰胺 (PFOSA)	754-91-6	mg/kg	0.01	ND
全氟辛酸(PFOA)及其盐+		mg/kg	0.01	ND

备注:

- (1) + PFOA 及其盐包含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) 和 APFO (CAS No.: 3825-26-1);
- (2) ^ 全氟辛烷磺酸 (PFOS)包含 PFOS-K (CAS No.: 2795-39-3), PFOS-Li (CAS No.: 29457-72-5),



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## 检测报告

编号: SHAEC2301433912

日期: 2023年03月03日 第5页,共13页

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) 和 POSF (CAS No.: 307-35-7)

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。



SGS-CSI (Shanghai) Technical Services (Shanghai) Co., Ltd.  
Testing Center

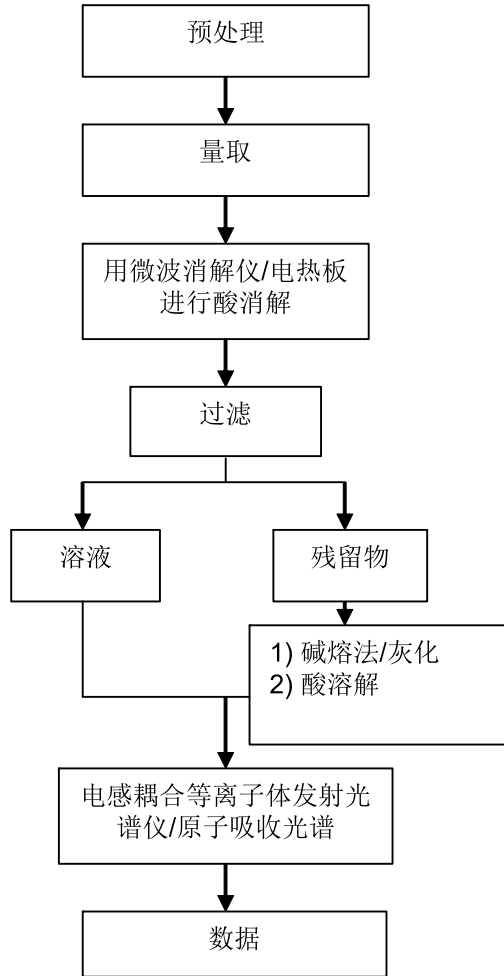
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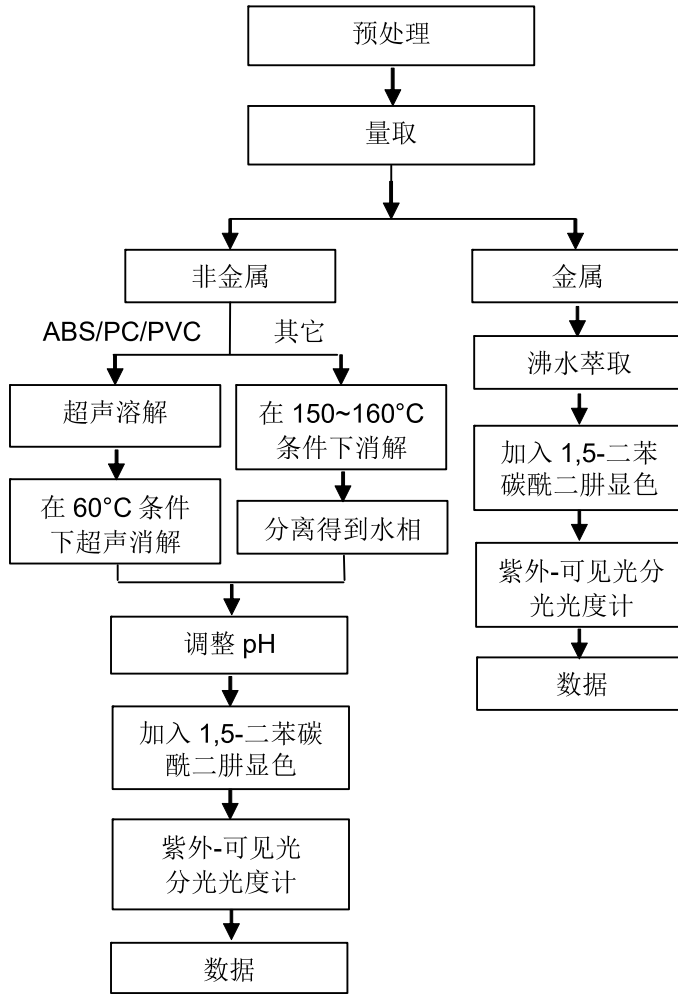
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## 元素(IEC62321) 检测流程图

1) 样品按照下述流程被完全消解



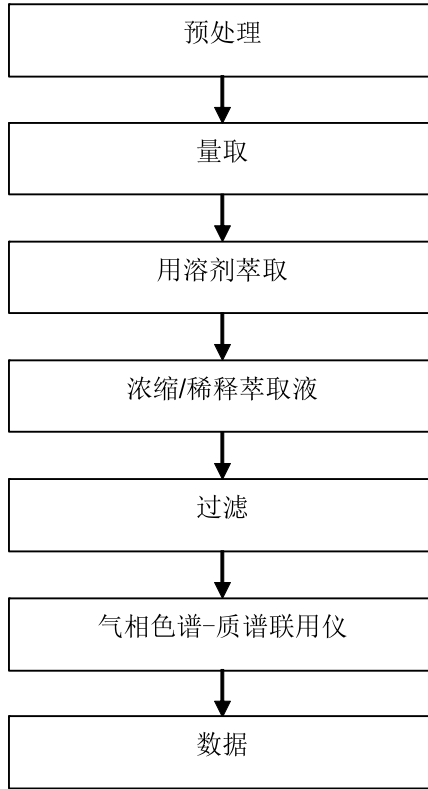
## 六价铬检测流程图



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### PBBs/PBDEs 检测流程图



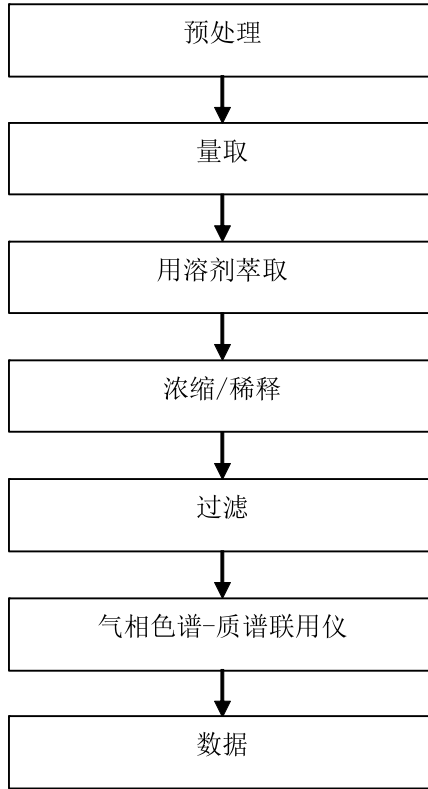
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中国·上海·徐汇区宜山路889号3号楼 邮编: 200233 1HL (86-21) 61402594 1HL (86-21) 61156899 [sgs.china@sgs.com](mailto:sgs.china@sgs.com)



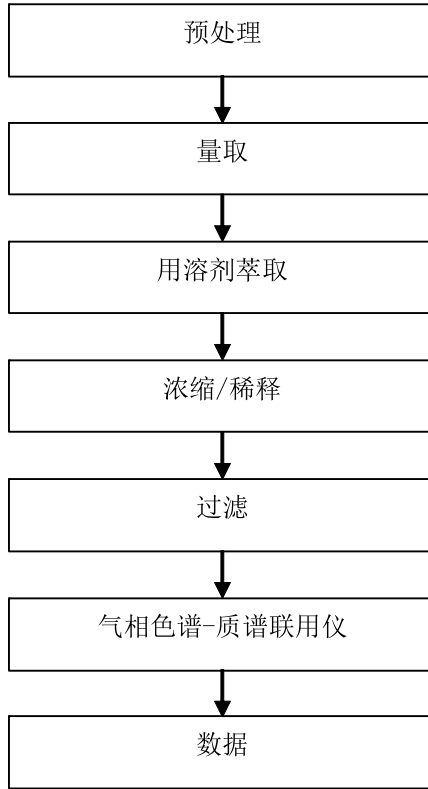
## Phthalates 检测流程图



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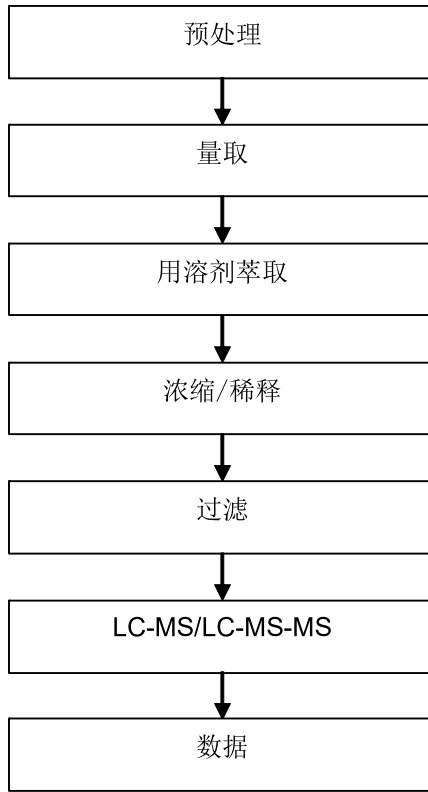
## HBCDD 检测流程图



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### PFASs/ PFOS/PFOA 检测流程图

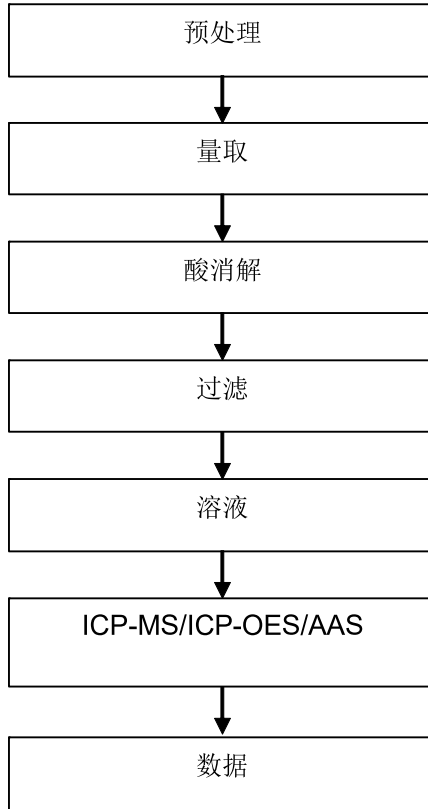


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### 元素检测流程图



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## 检测报告

编号: SHAEC2301433912

日期: 2023年03月03日 第13页,共13页

样品照片:



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## 检测报告

编号: CANEC2227563616

日期: 2023年01月16日 第1页,共27页

客户名称: 建滔积层板控股有限公司  
客户地址: 香港新界沙田安耀街三号汇达大厦二十三楼

样品名称: KB-6160  
型号: KB-6160  
客户参考信息: KB-6160A,KB-6160C,KB-6150,KB-6150C,KB-6160F,P-138  
以上样品及信息由客户提供。

SGS工作编号: CP22-067314 - GZ  
样品接收日期: 2022年12月22日  
检测周期: 2022年12月22日 - 2023年01月11日  
检测要求: 根据客户要求检测  
检测方法: 请参见下一页  
检测结果: 请参见下一页

## 检测结果概要:

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(PBBs), 多溴二苯醚(PBDEs), 邻苯二甲酸二丁酯 (DBP), 邻苯二甲酸丁苄酯(BBP), 邻苯二甲酸二(2-乙基己基)酯(DEHP)和邻苯二甲酸二异丁酯(DIBP)	符合
元素分析	见检测结果
卤素	见检测结果
石棉	见检测结果
红磷	见检测结果
双酚-A	见检测结果
聚氯乙烯(PVC)	见检测结果
邻苯二甲酸酯	见检测结果
甲醛	见检测结果
六溴环十二烷(HBCDD) 及其非对映异构体( $\alpha$ -HBCDD, $\beta$ -HBCDD, $\gamma$ -HBCDD)	见检测结果
有机锡	见检测结果
C <sub>10</sub> ~C <sub>13</sub> 氯代烃(短链氯化石蜡)(SCCPs)	见检测结果
AfPS GS 2019:01 PAK- 多环芳香烃	见检测结果



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## 检测报告

编号: CANEC2227563616

日期: 2023年01月16日 第2页,共27页

AfPS GS 2019:01 PAK- 多环芳香烃	符合
美国环保署有毒物质控制法 (TSCA) 第6 (h)节规定的持久性、生物累积性和毒性 (PBT) 化学物质	符合
多氯联苯(PCBs)	见检测结果
全氟和多氟烷基化合物 (PFASs)	见检测结果
苯并三唑类紫外吸收剂	见检测结果

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 Li 李嘉欣  
批准签署人



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## 检测报告

编号: CANEC2227563616

日期: 2023年01月16日 第3页,共27页

检测结果:

### 检测样品描述:

样品编号	SGS样品ID	描述
SN1	CAN22-275636.003	双面覆铜板

备注:

- (1) 1 mg/kg = 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(PBBs), 多溴二苯醚(PBDEs), 邻苯二甲酸二丁酯 (DBP), 邻苯二甲酸丁苄酯(BBP), 邻苯二甲酸二(2-乙基己基)酯(DEHP)和邻苯二甲酸二异丁酯(DIBP)**

检测方法: 参考IEC 62321-4:2013+A1:2017, IEC 62321-5:2013, IEC 62321-7-2:2017, IEC 62321-6:2015 和 IEC 62321-8:2017, 采用 ICP-OES, UV-Vis 和 GC-MS 进行分析.

检测项目	限值	单位	MDL	003
镉 (Cd)	100	mg/kg	2	ND
铅 (Pb)	1000	mg/kg	2	11
汞 (Hg)	1000	mg/kg	2	ND
六价铬(Cr(VI))	1000	mg/kg	8	ND
多溴联苯之和(PBBs)	1000	mg/kg	-	ND
一溴联苯	-	mg/kg	5	ND
二溴联苯	-	mg/kg	5	ND
三溴联苯	-	mg/kg	5	ND
四溴联苯	-	mg/kg	5	ND
五溴联苯	-	mg/kg	5	ND
六溴联苯	-	mg/kg	5	ND
七溴联苯	-	mg/kg	5	ND
八溴联苯	-	mg/kg	5	ND
九溴联苯	-	mg/kg	5	ND
十溴联苯	-	mg/kg	5	ND
多溴二苯醚之和(PBDEs)	1000	mg/kg	-	ND
一溴二苯醚	-	mg/kg	5	ND
二溴二苯醚	-	mg/kg	5	ND
三溴二苯醚	-	mg/kg	5	ND
四溴二苯醚	-	mg/kg	5	ND



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## 检测报告

编号: CANEC2227563616

日期: 2023年01月16日 第4页,共27页

检测项目	限值	单位	MDL	003
五溴二苯醚	-	mg/kg	5	ND
六溴二苯醚	-	mg/kg	5	ND
七溴二苯醚	-	mg/kg	5	ND
八溴二苯醚	-	mg/kg	5	ND
九溴二苯醚	-	mg/kg	5	ND
十溴二苯醚	-	mg/kg	5	ND
邻苯二甲酸二丁酯 (DBP)	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(2-乙基己基)酯(DEHP)	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。

## 元素分析

检测方法: SGS内部方法 (GZTC CHEM-TOP-004-01, 参考EPA 3052: 1996), 采用ICP-OES进行分析。

检测项目	单位	MDL	003
砷 (As)	mg/kg	10	ND
锑 (Sb)	mg/kg	10	ND
铍 (Be)	mg/kg	5	ND

## 卤素

检测方法: 参考EN 14582:2016, 用 IC分析。

检测项目	单位	MDL	003
氟 (F)	mg/kg	50	1134
氯 (Cl)	mg/kg	50	197
溴 (Br)	mg/kg	50	34540
碘 (I)	mg/kg	50	ND

## 石棉

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## 检测报告

编号: CANEC2227563616

日期: 2023年01月16日 第5页,共27页

检测方法: 参考NIOSH 9000:2015 / NIOSH 9002:1994, 采用XRD / PLM进行分析。

检测项目	CAS NO.	单位	MDL	003
温石棉	12001-29-5/13220	% (m/m)	0.1	阴性
铁石棉	7-32-0 12172-73-5	% (m/m)	0.1	阴性
青石棉	12001-28-4	% (m/m)	0.1	阴性
直闪石	77536-67-5	% (m/m)	0.1	阴性
透闪石	77536-68-6	% (m/m)	0.1	阴性
阳起石	77536-66-4	% (m/m)	0.1	阴性

备注:

(1)阴性表示未检出石棉, 阳性表示检出石棉。

## 红磷

检测方法: SGS内部方法(SGS-CCL-TOP-215-01), 采用PY-GC/MS / ICP-OES / GC-MS 进行分析。

检测项目	单位	MDL	003
红磷	mg/kg	500	ND

## 双酚-A

检测方法: SGS内部方法(GZTC CHEM-TOP-075-02, 参考EPA 3550C:2007 和EPA 8321B:2007), 采用LC-MS进行分析。

检测项目	CAS NO.	单位	MDL	003
双酚-A	80-05-7	mg/kg	1.0	ND

## 聚氯乙烯(PVC)

检测方法: SGS内部方法(SGS-CCL-TOP-066-01), 采用FTIR进行分析。

检测项目	CAS NO.	单位	MDL	003
聚氯乙烯(PVC)	9002-86-2	-	-	阴性



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## 检测报告

编号: CANEC2227563616

日期: 2023年01月16日 第6页,共27页

备注:

(1) 阴性 = 未检测到, 阳性 = 已检测到

### 邻苯二甲酸酯

检测方法: 参考EN 14372: 2004的方法测定, 采用GC-MS进行分析。

检测项目	CAS NO.	单位	MDL	003
邻苯二甲酸二丁酯 (DBP)	84-74-2	%(w/w)	0.003	ND
邻苯二甲酸丁苄酯 (BBP)	85-68-7	%(w/w)	0.003	ND
邻苯二甲酸二(2-乙基己基)酯 (DEHP)	117-81-7	%(w/w)	0.003	ND
邻苯二甲酸二异壬酯 (DINP)	28553-12-0 / 68515-48-0	%(w/w)	0.010	ND
邻苯二甲酸二正辛酯 (DNOP)	117-84-0	%(w/w)	0.003	ND
邻苯二甲酸二异癸酯 (DIDP)	26761-40-0 / 68515-49-1	%(w/w)	0.010	ND
邻苯二甲酸二甲酯 (DMP)	131-11-3	%(w/w)	0.003	ND
邻苯二甲酸二乙酯 (DEP)	84-66-2	%(w/w)	0.003	ND
邻苯二甲酸二丙酯 (DPrP)	131-16-8	%(w/w)	0.003	ND
邻苯二甲酸二异丁酯 (DIBP)	84-69-5	%(w/w)	0.003	ND
邻苯二甲酸二戊酯 (DPENP/ DnPP)	131-18-0	%(w/w)	0.003	ND
邻苯二甲酸二正己酯 (DnHP)	84-75-3	%(w/w)	0.003	ND
邻苯二甲酸二环己酯 (DCHP)	84-61-7	%(w/w)	0.003	ND
邻苯二甲酸二苯酯 (DPhP)	84-62-8	%(w/w)	0.003	ND
邻苯二甲酸二苄酯 (DBzP)	523-31-9	%(w/w)	0.003	ND
邻苯二甲酸二壬酯 (DNP)	84-76-4	%(w/w)	0.003	ND
邻苯二甲酸二异辛酯 (DIOP)	27554-26-3	%(w/w)	0.010	ND
邻苯二甲酸二(2-甲氧基乙基)酯 (DMEP)	117-82-8	%(w/w)	0.003	ND
邻苯二甲酸二烯丙酯 (DAP)	131-17-9	%(w/w)	0.003	ND
邻苯二甲酸癸基辛基酯 (nDnOP)	119-07-3	%(w/w)	0.003	ND
邻苯二甲酸二癸酯 (DnDP)	84-77-5	%(w/w)	0.003	ND
邻苯二甲酸二异戊酯 (DIPP)	605-50-5	%(w/w)	0.003	ND
邻苯二甲酸正戊基异戊基酯 (nPIPP)	776297-69-9	%(w/w)	0.003	ND
邻苯二甲酸二(C6-8支链)烷基酯(富C7) (DIHP)	71888-89-6	%(w/w)	0.010	ND
邻苯二甲酸二(C7-11支链与直链)烷基(醇)酯 (DHNUP)	68515-42-4	%(w/w)	0.010	ND
己二酸二(2-乙基己基)酯(DEHA)	103-23-1	%(w/w)	0.003	ND
邻苯二甲酸二(4-甲基-2-戊基)酯 (BMPP)	146-50-9	%(w/w)	0.003	ND
邻苯二甲酸二(2-乙氧基)乙酯 (DEEP)	605-54-9	%(w/w)	0.003	ND



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## 检测报告

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日期: 2023年01月16日 第7页,共27页

检测项目	CAS NO.	单位	MDL	003
邻苯二甲酸二(2-丁氧基)乙酯 (DBEP)	117-83-9	%(w/w)	0.003	ND
邻苯二甲酸双十一烷酯 (DUDP)	3648-20-2	%(w/w)	0.003	ND
己二酸二异壬酯(DINA)	33703-08-1	%(w/w)	0.010	ND
邻苯二甲酸双十三烷酯 (DTDP)	119-06-2	%(w/w)	0.003	ND
偏苯三酸三(2-乙基己)酯 (TOTM)	3319-31-1	%(w/w)	0.003	ND
对苯二甲酸二(2-乙基己)酯 (DOTP)	6422-86-2	%(w/w)	0.003	ND
邻苯二甲酸二庚酯 (DnHpP)	3648-21-3	%(w/w)	0.003	ND
乙酰柠檬酸三丁酯 (Citroflex, ATBC)	77-90-7	%(w/w)	0.010	ND
邻苯二甲酸二(支链与直链)戊基酯 (DPP)	84777-06-0	%(w/w)	0.010	ND
邻苯二甲酸二(支链与直链)己基酯 (DHP)	68515-50-4	%(w/w)	0.010	ND
邻苯二甲酸二(2-丙基庚)酯(DPHpP)	53306-54-0	%(w/w)	0.010	ND

备注:

(1) DBP、BBP、DEHP、DIBP参考信息: 欧盟决议(EC) No 1907/2006 REACH 附录XVII及其修正法案(EU) 2018/2005 第51条:

i) 不允许DBP、BBP、DEHP、DIBP单一质量浓度或质量浓度总和等于或高于0.1%的可塑性物料用于玩具和儿童护理品。

ii) 当玩具和儿童护理品中的可塑性物料含DBP、BBP、DEHP单一质量浓度或质量浓度总和等于或高于0.1%时, 不得投放市场。另外, 当玩具和儿童护理品中的可塑性物料含DIBP单一质量浓度或DBP、BBP、DEHP、DIBP质量浓度总和等于或高于0.1%时, 2020年7月7日后不得投放市场。

iii) 当成品中的可塑性物料含DBP、BBP、DEHP、DIBP单一质量浓度或质量浓度总和等于或高于0.1%时, 2020年7月7日后不得投放市场。

详细信息请参见Regulation (EU) 2018/2005

(2) DINP、DNOP、DIDP参考信息: 欧盟决议(EC) No 1907/2006 REACH 附录XVII及修正法案(EU) 2015/326 第52条:

i) 不允许DINP、DNOP、DIDP质量浓度高于0.1%的可塑性物料用于可放入儿童口中的玩具和儿童护理品。

ii) 当可放入儿童口中的玩具和儿童护理品中的可塑性物料含DINP, DNOP, DIDP质量浓度高于0.1%时, 不得投放市场。

详细信息请参见Regulation (EU) 2015/326

## 甲醛

检测方法: 参考 ISO 14184-1:2011, 用 UV-Vis 分析。

检测项目	CAS NO.	单位	MDL	003
甲醛	50-00-0	mg/kg	16	ND

## 六溴环十二烷(HBCDD) 及其非对映异构体( $\alpha$ -HBCDD, $\beta$ -HBCDD, $\gamma$ -HBCDD)

检测方法: 参考IEC 62321-9:2021, 采用GC-MS进行分析。



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## 检测报告

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检测项目	CAS NO.	单位	MDL	003
六溴环十二烷(HBCDD) 及其非对映异构体( $\alpha$ -HBCDD, $\beta$ -HBCDD, $\gamma$ -HBCDD)	25637-99-4, 3194-55-6, 134237-50-6, 134237-51-7, 134237-52-8	mg/kg	20	ND

### 有机锡

检测方法: SGS内部方法 (GZTC CHEM-TOP-031, 参考ISO 17353:2004), 采用GC-MS进行分析。

检测项目	单位	MDL	003
三丁基锡(TBT)	mg/kg	0.02	ND
三苯基锡(TPhT)	mg/kg	0.02	ND
三环己基锡(TCyT)	mg/kg	0.02	ND
三辛基锡(TOT)	mg/kg	0.02	ND
三丙基锡(TPT)	mg/kg	0.02	ND
二丁基锡(DBT)	mg/kg	0.02	ND
二辛基锡(DOT)	mg/kg	0.02	ND
二甲基锡 (DMT)	mg/kg	0.02	ND

### C<sub>10</sub>~C<sub>13</sub> 氯代烃(短链氯化石蜡)(SCCPs)

检测方法: 参考ISO 22818:2021, 采用GC-NCI-MS 进行分析。

检测项目	CAS NO.	单位	MDL	003
C <sub>10</sub> ~C <sub>13</sub> 氯代烃(短链氯化石蜡)(SCCPs)	85535-84-8 和其 它	mg/kg	50	ND

### AfPS GS 2019:01 PAK-多环芳香烃

检测方法: 参考AfPS GS 2019:01 PAK 检测, 采用 GC-MS进行分析。

检测项目	CAS NO.	单位	MDL	003
萘 (NAP)	91-20-3	mg/kg	0.1	ND
菲 (PHE)	85-01-8	mg/kg	0.1	ND
蒽 (ANT)	120-12-7	mg/kg	0.1	ND
荧蒽 (FLT)	206-44-0	mg/kg	0.1	ND
芘 (PYR)	129-00-0	mg/kg	0.1	ND
苯并(a)蒽 (BaA)	56-55-3	mg/kg	0.1	ND
蒽 (CHR)	218-01-9	mg/kg	0.1	ND



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## 检测报告

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检测项目	CAS NO.	单位	MDL	003
苯并(b)荧蒽 (BbF)	205-99-2	mg/kg	0.1	ND
苯并(j)荧蒽 (BjF)	205-82-3	mg/kg	0.1	ND
苯并(k)荧蒽 (BkF)	207-08-9	mg/kg	0.1	ND
苯并(a)芘 (BaP)	50-32-8	mg/kg	0.1	ND
苯并(e)芘 (BeP)	192-97-2	mg/kg	0.1	ND
茚并(1,2,3-c,d)芘 (IPY)	193-39-5	mg/kg	0.1	ND
二苯并(a,h)蒽(DBA)	53-70-3	mg/kg	0.1	ND
苯并(g,h,i)芘(二蔡嵌苯) (BPE)	191-24-2	mg/kg	0.1	ND
4项多环芳香烃总和(菲 (PHE), 芘 (PYR), 蒽 (ANT), 荧蒽 (FLT))	-	mg/kg	-	ND
15项多环芳香烃总和	-	mg/kg	-	ND



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**AfPS (德国产品安全委员会): 多环芳香烃的要求**

参数 (mg/kg)	1类	2类		3类	
	设计意图为放入口中的材料, 或与皮肤长期接触 (超过30秒) 的材料用于 -2009/48/EC 定义的玩具, 或 -供3岁以下儿童 <sup>a,b</sup> 使用。	不属于第1类, 设计意图或可预见 <sup>d</sup> 与皮肤长期接触 (超过30秒) 或短期重复接触 <sup>e</sup> 的材料		不属于第1和2类, 设计意图或可预见与皮肤短期接触 (不超过30秒) 材料	
		a. 供儿童使用的产品	b. 其他产品	a. 供儿童使用的产品	b. 其他产品
苯并(a)芘 (BaP)	< 0.2	< 0.2	< 0.5	< 0.5	< 1
苯并(e)芘 (BeP)	< 0.2	< 0.2	< 0.5	< 0.5	< 1
苯并(a)蒽 (BaA)	< 0.2	< 0.2	< 0.5	< 0.5	< 1
苯并(b)荧蒽 (BbF)	< 0.2	< 0.2	< 0.5	< 0.5	< 1
苯并(j)荧蒽 (BjF)	< 0.2	< 0.2	< 0.5	< 0.5	< 1
苯并(k)荧蒽 (BkF)	< 0.2	< 0.2	< 0.5	< 0.5	< 1
蒽 (CHR)	< 0.2	< 0.2	< 0.5	< 0.5	< 1
二苯并(a,h)蒽 (DBA)	< 0.2	< 0.2	< 0.5	< 0.5	< 1
苯并(g,h,i)芘(二苯嵌苯) (BPE)	< 0.2	< 0.2	< 0.5	< 0.5	< 1
茚并(1,2,3-c,d)芘 (IPY)	< 0.2	< 0.2	< 0.5	< 0.5	< 1
菲 (PHE), 芘 (PYR), 蒽 (ANT), 荧蒽 (FLT)	< 1 (总和)	< 5 (总和)	< 10 (总和)	< 20 (总和)	< 50 (总和)
萘 (NAP)	< 1	< 2		< 10	
<b>15 PAH之和</b>	< 1	< 5	< 10	< 20	< 50

注释:

- <sup>a</sup> 儿童是指法定年龄未满 14 周岁的人。
- <sup>b</sup> 供儿童使用包括儿童的主动接触或被动接触。
- <sup>c</sup> “短期重复接触”的定义摘自 REACH 附录 XVII 第 50 条修正案 ((EC) No. 1272/2013)。
- <sup>d</sup> 根据德国产品安全法 (ProdSG) (第一章第 2 条第 28 款) 的定义, “可预见的使用”是指将产品投放市场的人无意但可以合理预见的方式使用产品。

备注:

德国产品安全委员会 (AfPS) 于 2020 年 4 月 10 日发布了关于多环芳香烃 (PAHs) 的新文件 (AfPS GS 2019:01 PAK), 该文件将于 2020 年 7 月 1 日起用于 GS-MARK 认证。

**美国环保署有毒物质控制法 (TSCA) 第 6 (h) 节规定的持久性、生物累积性和毒性 (PBT) 化学物质**

检测方法: SGS内部方法(SGS-CCL-TOP-149-07, 参考US EPA 方法 3550C:2007), 采用GC-MS进行分析。



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## 检测报告

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日期: 2023年01月16日 第11页,共27页

检测项目	CAS NO.	限值	单位	MDL	003
十溴二苯醚 (Deca-BDE) $\Delta^1$	1163-19-5	★	mg/kg	5	ND
异丙基化磷酸三苯酯 (PIP 3:1) $\Delta^2$	68937-41-7	★	mg/kg	5	ND
2,4,6-三叔丁基苯酚 (2,4,6-TTBP) $\Delta^3$	732-26-3	3000	mg/kg	5	ND
六氯丁二烯 (HCBd)	87-68-3	★	mg/kg	5	ND
五氯苯硫酚 (PCTP)	133-49-3	10000	mg/kg	5	ND
<b>结论</b>					<b>符合</b>

备注:

- “★”= 禁止使用
- 法规信息请参见下链接  
<https://www.epa.gov/assessing-and-managing-chemicals-under-tsca/persistent-bioaccumulative-and-toxic-pbt-chemicals-under>
- $\Delta^1$ : 若送测样品来自于产品或物品含有十溴二苯醚的产品或物品的回收塑料, 则可豁免;
- $\Delta^2$ : 提交的样品有下列情形之一的, 不在法规的管控范围内:
  - 用于航空或军事用途的液压油;
  - 润滑剂和润滑脂;
  - 汽车和航空航天车辆的新零件和替换零件;
  - 生产氰基丙烯酸酯胶粘剂的中间体;
  - 机车和船用专用发动机空气滤清器;
  - 来自于含有PIP (3:1) 的产品或物品的回收塑料;
  - 用含有PIP (3:1) 回收产品或物品的塑料制成的产品或物品
- $\Delta^3$ : 提交的样品如果不是机油或润滑油, 则不在法规的管控范围内;

### 多氯联苯(PCBs)

检测方法: SGS内部方法 (GZTC CHEM-TOP-032-01, 参考EPA 8082A:2007), 采用 GC-ECD/GC-MS 进行分析。

检测项目	CAS NO.	单位	MDL	003
2,4,4'-三氯联苯 (PCB 28)	7012-37-5	mg/kg	0.5	ND
2,2',5,5'-四氯联苯 (PCB 52)	35693-99-3	mg/kg	0.5	ND
2,2',4,5,5'-五氯联苯 (PCB 101)	37680-73-2	mg/kg	0.5	ND
2,3',4,4',5-五氯联苯 (PCB 118)	31508-00-6	mg/kg	0.5	ND
2,2',3,4,4',5'-六氯联苯 (PCB 138)	35065-28-2	mg/kg	0.5	ND
2,2',4,4',5,5'-六氯联苯 (PCB 153)	35065-27-1	mg/kg	0.5	ND
2,2',3,4,4',5,5'-七氯联苯 (PCB 180)	35065-29-3	mg/kg	0.5	ND

### 全氟和多氟烷基化合物 (PFASs)

检测方法: SGS内部方法 (SGS-CCL-TOP-062-04, SGS-CCL-TOP-062-06 和SGS-CCL-TOP-062-08).



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## 检测报告

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检测项目	CAS NO.	单位	MDL	003
全氟丁酸 (PFBA)	375-22-4	mg/kg	0.010	ND
全氟戊酸 (PFPeA)	2706-90-3	mg/kg	0.010	ND
全氟己酸 (PFHxA)	307-24-4	mg/kg	0.010	ND
全氟己酸铵 (PFHxA-NH <sub>4</sub> ) *	21615-47-4	mg/kg	0.010	ND
7H-十二氟庚酸 (HPFHpA)	1546-95-8	mg/kg	0.010	ND
全氟丁磺酸 (PFBS)	375-73-5	mg/kg	0.010	ND
全氟丁基磺酸钾 (PFBS-K)*	29420-49-3	mg/kg	0.010	ND
九氟丁烷磺酸水合物 (PFBS-H <sub>2</sub> O) *	59933-66-3	mg/kg	0.010	ND
N,N,N,-三乙基乙胺 1,1,2,2,3,3,4,4,4- 九氟丁烷-1-磺酸盐 *	25628-08-4	mg/kg	0.010	ND
1,1,2,2,3,3,4,4,4- 九氟-1-丁烷磺酰氟 *	375-72-4	mg/kg	0.010	ND
全氟庚酸 (PFHpA)	375-85-9	mg/kg	0.010	ND
1H,1H,2H,2H-全氟辛磺酸 (6:2 FTS)	27619-97-2	mg/kg	0.010	ND
全氟辛酸 (PFOA)	335-67-1	mg/kg	0.010	ND
全氟辛酸铵 (APFO)*	3825-26-1	mg/kg	0.010	ND
全氟辛酸钠 (PFOA-Na)*	335-95-5	mg/kg	0.010	ND
全氟辛酸钾 (PFOA-K)*	2395-00-8	mg/kg	0.010	ND
全氟辛酸银 (PFOA-Ag)*	335-93-3	mg/kg	0.010	ND
全氟辛氟 (PFOA-F)*	335-66-0	mg/kg	0.010	ND
2H,2H-全氟癸酸(H2PFDA/8:2 FTCA)	27854-31-5	mg/kg	0.010	ND
四丁基磷2H,2H-全氟癸酸酯 (H2PFDA-P(C <sub>4</sub> H <sub>9</sub> ) <sub>4</sub> )	882489-14-7	mg/kg	0.010	ND
全氟己基磺酸 (PFHxS)	355-46-4	mg/kg	0.010	ND
全氟己基磺酸钠 (PFHxS-Na)*	82382-12-5	mg/kg	0.010	ND
全氟己基磺酸钾 (PFHxS-K)*	3871-99-6	mg/kg	0.010	ND
全氟己基磺酸铵 (PFHxS-NH <sub>4</sub> )*	68259-08-5	mg/kg	0.010	ND
全氟己基磺酸锂 (PFHxS-Li)*	55120-77-9	mg/kg	0.010	ND
全氟己基磺酸锌 (PFHxS-Zn)*	70136-72-0	mg/kg	0.010	ND
全氟壬酸 (PFNA)	375-95-1	mg/kg	0.010	ND
全氟壬酸钠 (PFNA-Na)*	21049-39-8	mg/kg	0.010	ND
全氟壬酸铵 (APFN)*	4149-60-4	mg/kg	0.010	ND
全氟-3,7-二甲基辛酸 (PF-3,7-DMOA)	172155-07-6	mg/kg	0.010	ND
全氟庚基磺酸 (PFHpS)	375-92-8	mg/kg	0.010	ND
全氟庚基磺酸钠 (PFHpS-Na)*	68555-66-8	mg/kg	0.010	ND
全氟庚基磺酸钾 (PFHpS-K) *	60270-55-5	mg/kg	0.010	ND
全氟癸酸 (PFDA)	335-76-2	mg/kg	0.010	ND
全氟癸酸钠 (PFDA-Na)*	3830-45-3	mg/kg	0.010	ND
全氟癸酸铵 (APFDA)*	3108-42-7	mg/kg	0.010	ND



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## 检测报告

编号: CANEC2227563616

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检测项目	CAS NO.	单位	MDL	003
全氟癸酸铵 (APFDA)*	3108-42-7	mg/kg	0.010	ND
2H,2H,3H,3H-全氟癸酸(H4PFUnDA/ 8:3 FTCA)	34598-33-9	mg/kg	0.010	ND
全氟辛烷磺酸 (PFOS)	1763-23-1	mg/kg	0.010	ND
全氟辛基磺酰胺 (PFOSA)	754-91-6	mg/kg	0.010	ND
N-甲基全氟辛烷磺酰胺 (N-MeFOSA)	31506-32-8	mg/kg	0.010	ND
N-乙基全氟辛烷磺酰胺 (N-EtFOSA)	4151-50-2	mg/kg	0.010	ND
2-(N-甲基全氟辛基磺酰胺)乙醇 (N-MeFOSE)	24448-09-7	mg/kg	0.010	ND
2-(N-乙基全氟辛基磺酰胺)乙醇 (N-EtFOSE)	1691-99-2	mg/kg	0.010	ND
全氟辛基磺酰氟 (POSF)*	307-35-7	mg/kg	0.010	ND
全氟辛基磺酸钾 (PFOS-K)*	2795-39-3	mg/kg	0.010	ND
全氟辛基磺酸铵 (PFOS-NH <sub>4</sub> )*	29081-56-9	mg/kg	0.010	ND
全氟辛基磺酸二癸二甲基铵 (PFOS-DDA)*	251099-16-8	mg/kg	0.010	ND
全氟辛基磺酸二乙醇铵 (PFOS-NH(OH) <sub>2</sub> )*	70225-14-8	mg/kg	0.010	ND
全氟辛基磺酸锂 (PFOS-Li)*	29457-72-5	mg/kg	0.010	ND
全氟辛基磺酸四乙基铵 (PFOS-N(C <sub>2</sub> H <sub>5</sub> ) <sub>4</sub> )*	56773-42-3	mg/kg	0.010	ND
全氟辛基磺酸钠 (PFOS-Na) *	4021-47-0	mg/kg	0.010	ND
全氟辛基磺酸镁 (PFOS-Mg) *	91036-71-4	mg/kg	0.010	ND
全氟十一烷酸(PFUnDA)	2058-94-8	mg/kg	0.010	ND
全氟十二烷酸(PFDoDA)	307-55-1	mg/kg	0.010	ND
全氟十二烷铵盐 (PFDoDA-NH <sub>4</sub> ) *	3793-74-6	mg/kg	0.010	ND
全氟癸烷磺酸 (PFDS)	335-77-3 / 126105-34-8	mg/kg	0.010	ND
全氟癸烷磺酸钠 (PFDS-Na)*	2806-15-7	mg/kg	0.010	ND
全氟癸烷磺酸钾 (PFDS-K)*	2806-16-8	mg/kg	0.010	ND
全氟癸基磺酸铵 (PFDS-NH <sub>4</sub> )*	67906-42-7	mg/kg	0.010	ND
全氟十三烷酸(PFTrDA)	72629-94-8	mg/kg	0.010	ND
全氟十四烷酸(PFTDA)	376-06-7	mg/kg	0.010	ND
1,1,2,2,3,3,4,4,4-九氟-N-(2-羟乙基)-N-甲基-1-丁磺酰胺	34454-97-2	mg/kg	0.010	ND
2,3,3,3-四氟-2-(七氟丙氧基)丙酸	13252-13-6	mg/kg	0.010	ND
2,3,3,3-四氟-2-(七氟丙氧基)丙酸铵 *	62037-80-3	mg/kg	0.010	ND
2,3,3,3-四氟-2-(七氟丙氧基)丙酸钾 *	67118-55-2	mg/kg	0.010	ND
2,3,3,3-四氟-2-(七氟丙氧基)丙酰氟	2062-98-8	mg/kg	0.010	ND
N-甲基-N-(全氟-1-辛烷磺酰基)甘氨酸 (N-MeFOSAA)	2355-31-9	mg/kg	0.010	ND
N-乙基-N-(全氟-1-辛烷磺酰基)甘氨酸 (N-EtFOSAA)	2991-50-6	mg/kg	0.010	ND
双(2-(全氟乙基))磷酸 (8:2diPAP)	678-41-1	mg/kg	0.010	ND
全氟正十六酸 (PFHxDA)	67905-19-5	mg/kg	0.010	ND



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## 检测报告

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检测项目	CAS NO.	单位	MDL	003
全氟正十八酸 (PFODA)	16517-11-6	mg/kg	0.010	ND
1H,1H,2H,2H-全氟癸烷磺酸 (8:2 FTS)	39108-34-4	mg/kg	0.1	ND
N-(全氟-1-辛烷磺酰基)甘氨酸	2806-24-8	mg/kg	0.010	ND
全氟壬烷磺酸 (PFNS)	68259-12-1	mg/kg	0.010	ND
全氟-1-壬烷磺酸钠 (PFNS-Na) *	98789-57-2	mg/kg	0.010	ND
全氟十二烷磺酸 (PFDoDS)	79780-39-5	mg/kg	0.010	ND
全氟-1-十二烷磺酸钠 (PFDoDS-Na) *	1260224-54-1	mg/kg	0.010	ND
1H,1H,2H,2H-全氟己烷磺酸 (4:2 FTS)	757124-72-4	mg/kg	0.010	ND
全氟十五烷酸(PFPeDA)	141074-63-7	mg/kg	0.010	ND
全氟十七烷酸(PFHpDA)	57475-95-3	mg/kg	0.010	ND
全氟十九烷酸(PFNDA)	133921-38-7	mg/kg	0.010	ND
全氟二十烷酸(PFECA)	68310-12-3	mg/kg	0.010	ND
全氟辛酸甲酯 (Me-PFOA)	376-27-2	mg/kg	0.1	ND
全氟辛酸乙酯 (Et-PFOA)	3108-24-5	mg/kg	0.1	ND
1H,1H,2H,2H-全氟-1-癸醇 (8:2 FTOH)	678-39-7	mg/kg	0.1	ND
1H,1H,2H,2H-全氟癸基丙烯酸酯 (8:2 FTA)	27905-45-9	mg/kg	0.1	ND
1H,1H,2H,2H-甲基丙烯酸全氟癸酯 (8:2 FTMA)	1996-88-9	mg/kg	0.1	ND
全氟辛基碘烷 (PFOI)	507-63-1	mg/kg	0.1	ND
1H,1H,2H,2H-全氟-1-己醇 (4:2 FTOH)	2043-47-2	mg/kg	0.1	ND
1H,1H,2H,2H-全氟-1-辛醇 (6:2 FTOH)	647-42-7	mg/kg	0.1	ND
1H,1H,2H,2H-全氟辛基丙烯酸酯 (6:2 FTA)	17527-29-6	mg/kg	0.1	ND
1H,1H,2H,2H-全氟十二烷基丙烯酸酯 (10:2 FTA)	17741-60-5	mg/kg	0.1	ND
1H,1H,2H,2H-全氟-1-十二烷醇 (10:2 FTOH)	865-86-1	mg/kg	0.1	ND
1-碘-1H,1H,2H,2H-全氟癸烷 (8:2 FTI)	2043-53-0	mg/kg	0.1	ND
1H,1H,2H,2H-甲基丙烯酸全氟辛酯 (6:2 FTMA)	2144-53-8	mg/kg	0.1	ND
1H,1H,2H,2H-全氟癸基三乙氧基硅烷 (8:2 FTSi(OC <sub>2</sub> H <sub>5</sub> ) <sub>3</sub> )	101947-16-4	mg/kg	0.1	ND
1H,1H,2H,2H-甲基丙烯酸全氟十二烷基酯 (10:2 FTMA)	2144-54-9	mg/kg	0.1	ND
全氟辛基乙烯	21652-58-4	mg/kg	0.1	ND

备注:

\* 检测结果是由选定的标记物的结果并基于最坏的情况计算得出。

### 苯并三唑类紫外吸收剂

检测方法: SGS内部方法 (GZTC CHEM-TOP-102, 参考EPA 3550C:2007), 采用 GC-MS进行分析。



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## 检测报告

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检测项目	CAS NO.	单位	MDL	003
2-(2'-羟基-3',5'-二叔丁基苯基)-苯并三唑	3846-71-7	mg/kg	5	ND
2-(2'-羟基-3',5'-二叔丁基苯基)-5-氯代苯并三唑	3864-99-1	mg/kg	5	ND
2-(2'-羟基-3',5'-二叔戊基苯基)苯并三唑	25973-55-1	mg/kg	5	ND
2-(2'-羟基-3'-异丁基-5'-叔丁基苯基)苯并三唑	36437-37-3	mg/kg	5	ND

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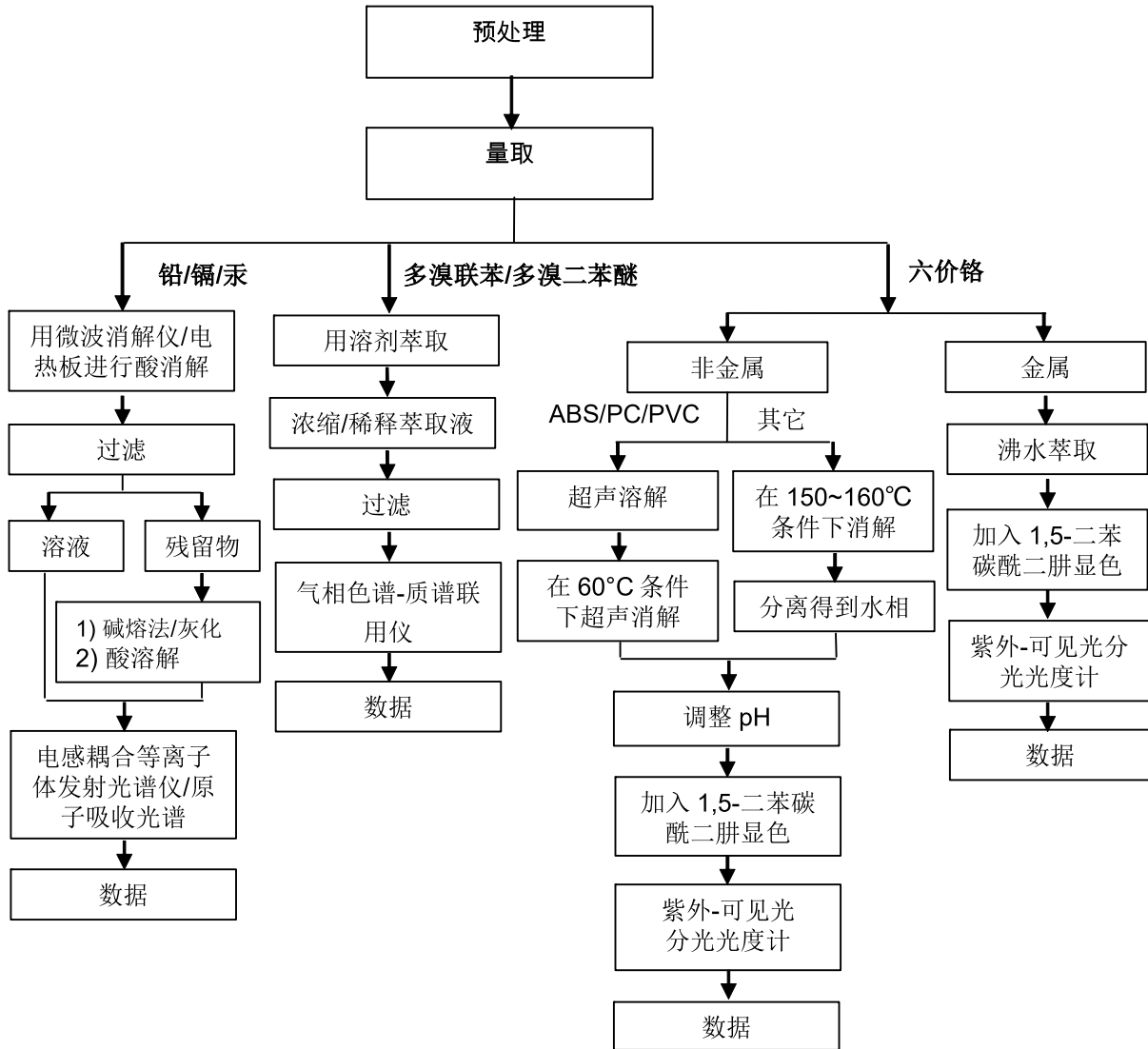
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附件

## Pb/Cd/Hg/Cr<sup>6+</sup>/PBBs/PBDEs 检测流程图

1) 样品按照下述流程被完全消解（六价铬和多溴联苯/多溴二苯醚检测除外）。



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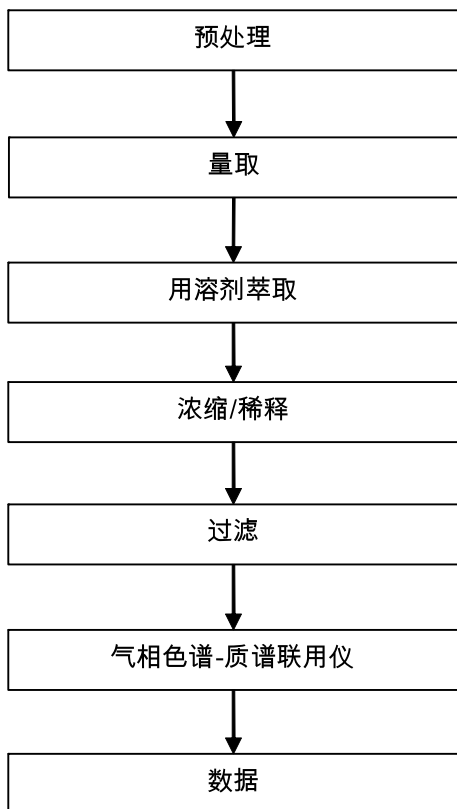
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t (86-20) 82155555 sgs.china@sgs.com

附件

### Phthalates 检测流程图

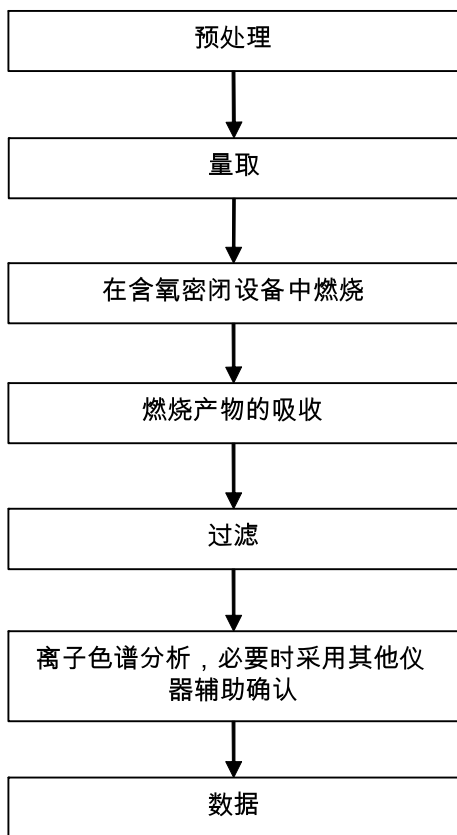


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附件

### 卤素检测流程图

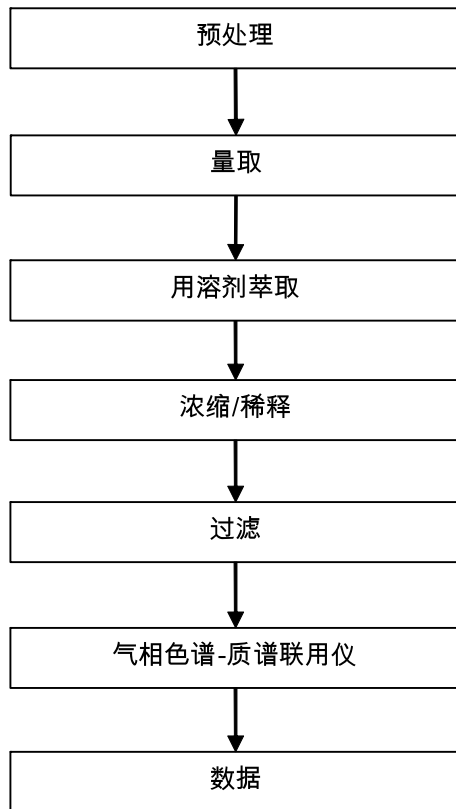


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### HBCDD 检测流程图



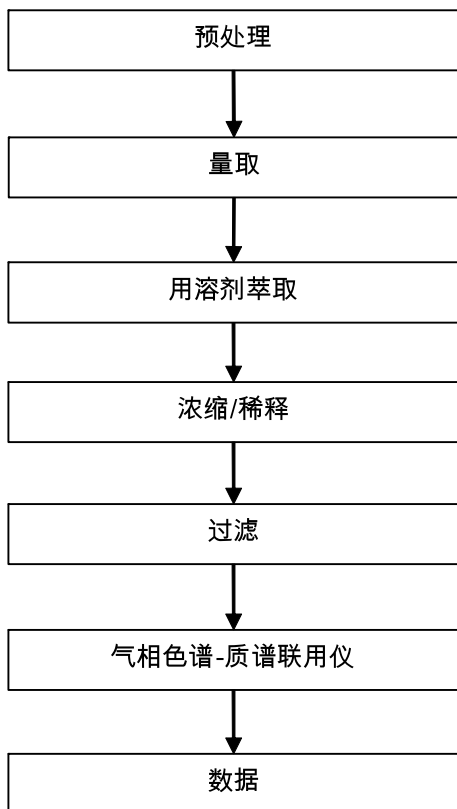
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### PAHs 检测流程图

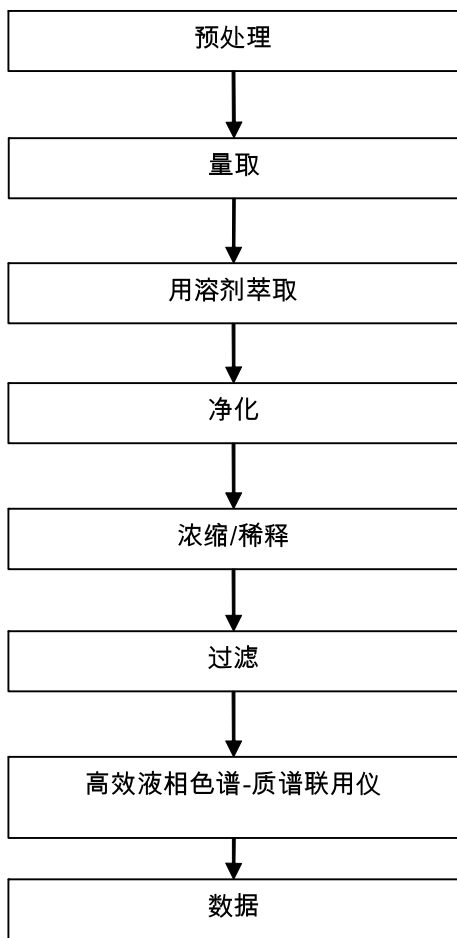


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### BPA 检测流程图

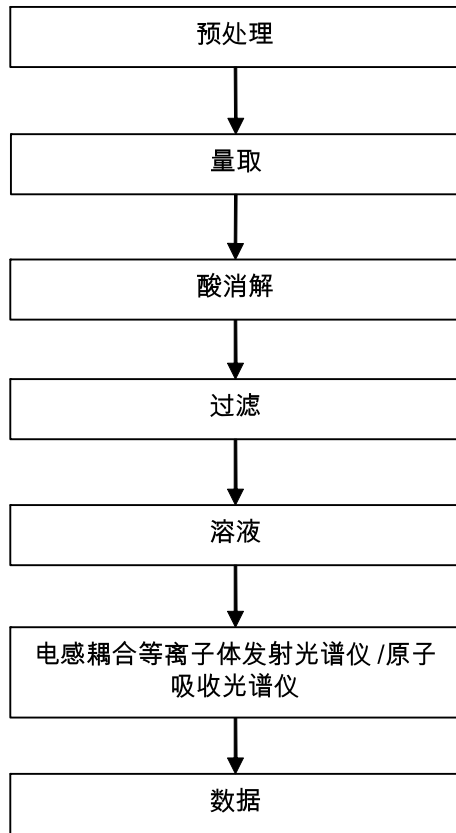


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### 元素检测流程图



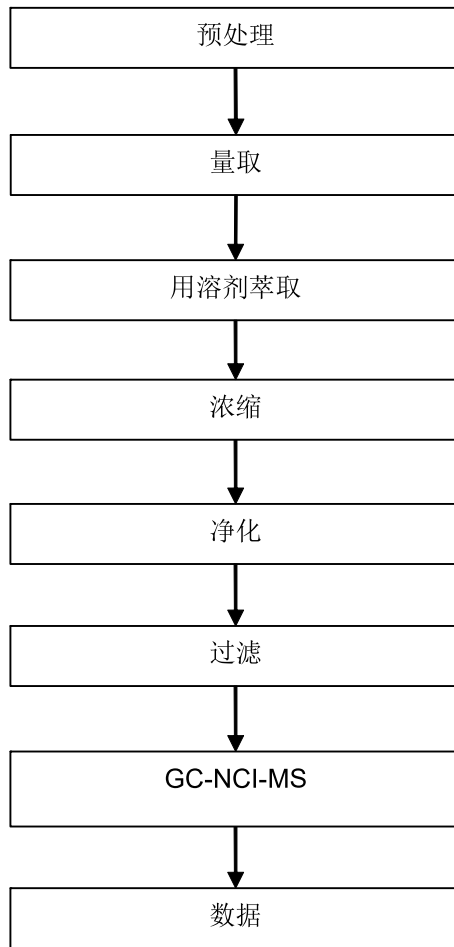
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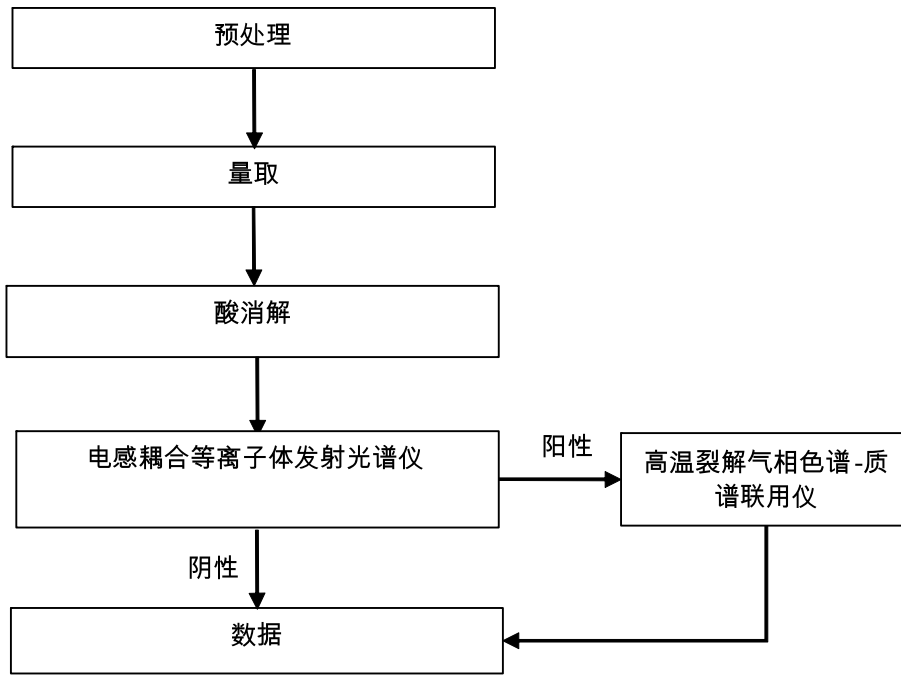
### SCCP/MCCP/LCCP 检测流程图



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### 红磷检测流程图

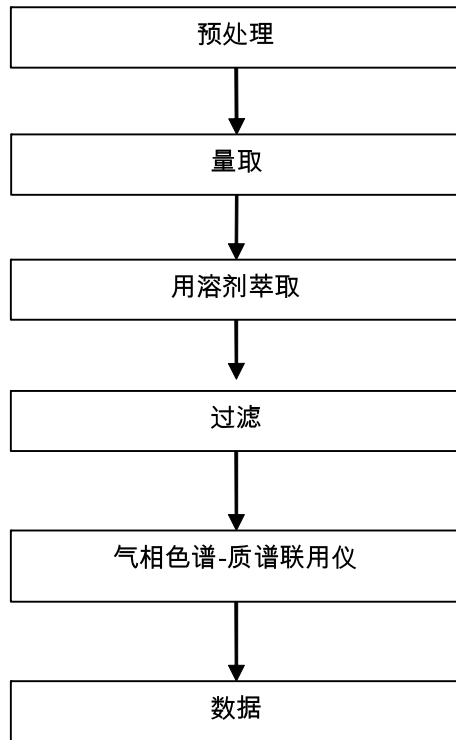


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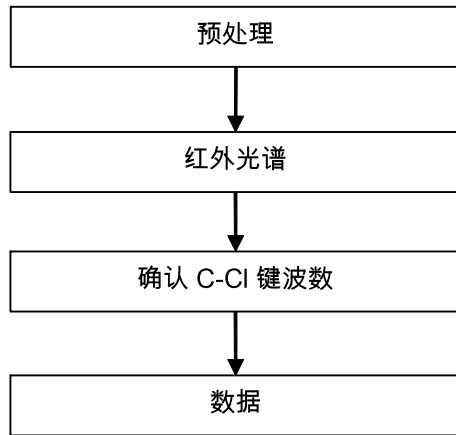
### 持久性、生物累积性和毒性 (PBT) 化学物质检测流程图



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### PVC 检测流程图



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# 检测报告

## Test Report

报告编号 A2230173541101001E  
Report No. A2230173541101001E

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Page 1 of 13

报告抬头公司名称 无锡市明星精密线材有限公司  
Company Name WUXI CITY MINGXING PRECISION CO.,LTD  
shown on Report  
地址 江苏省无锡市鹅湖镇甘露甘厚路工业集中区  
Address GANHOU ROAD, INDUSTRIAL FOCUS AREAS, GANLU E'HU TOWN, WUXI CITY, JIANGSU 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 镀锡铜线  
Sample Name(s) TINNDE COPPER WIRE  
样品接收日期 2023.04.17  
Sample Received Date Apr. 17, 2023  
样品检测日期 2023.04.17-2023.04.24  
Testing Period Apr. 17, 2023 to Apr. 24, 2023

检测要求 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), 铍(Be)进行测试。

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), Beryllium (Be) in the submitted sample(s).

检测依据/检测结果 请参见下页。

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

批准

Approved by

陈凯敏

实验室经理 Lab Manager

日期

Date

2023.04.24

No. R188382109

上海市闵行区万芳路 1351 号

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

上海华测品标检测技术有限公司

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

检验检测专用章  
Inspection & Testing Services

# 检测报告 Test Report

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\*\*\*\*\*

## 结论 Conclusion

测试样品 Tested Sample	依据标准/指令 According to standard/directive	结果 Result
提交样品 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.

# 检测报告

## Test Report

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### 检测依据 Test Method

测试项目 Tested Item(s)	测试方法 Test Method	测试仪器 Measured Equipment(s)
铅 Lead (Pb)	IEC 62321-5:2013	ICP-OES
	参考 IEC 62321-5:2013 Refer to IEC 62321-5:2013	
镉 Cadmium (Cd)	IEC 62321-5:2013	ICP-OES
	参考 IEC 62321-5:2013 Refer to IEC 62321-5:2013	
汞 Mercury (Hg)	IEC 62321-4:2013+AMD1:2017 CSV	ICP-OES
	参考 IEC 62321-4:2013+AMD1:2017 CSV Refer to IEC 62321-4:2013+AMD1:2017 CSV	
六价铬 Hexavalent Chromium (Cr(VI))	IEC 62321-7-1:2015	UV-Vis
多溴联苯 Polybrominated Biphenyls (PBBs)	IEC 62321-6:2015	GC-MS
多溴二苯醚 Polybrominated Diphenyl Ethers (PBDEs)	IEC 62321-6:2015	GC-MS
邻苯二甲酸酯 Phthalates (DBP, BBP, DEHP, DIBP)	IEC 62321-8:2017	GC-MS
铍 Beryllium(Be)	参考 US EPA 3050B:1996 & US EPA 6010D:2018* Refer to US EPA 3050B:1996 & US EPA 6010D:2018*	ICP-OES

### 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
	001	002		
铅 Lead (Pb)	43 mg/kg	N.D.	2 mg/kg	1000 mg/kg
镉 Cadmium (Cd)	N.D.	N.D.	2 mg/kg	100 mg/kg
汞 Mercury (Hg)	N.D.	N.D.	2 mg/kg	1000 mg/kg
六价铬 Hexavalent Chromium (Cr(VI))	N.D. ▼	N.D. ▼	0.10 µg/cm <sup>2</sup> (LOQ)	1000 mg/kg

# 检测报告

## Test Report

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测试项目 Tested Item(s)	结果 Result	方法检出限 MDL	限值 Limit
	002		
<b>多溴联苯 Polybrominated Biphenyls (PBBs)</b>			
一溴联苯 Monobromobiphenyl	N.D.	5 mg/kg	1000 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	
六溴联苯 Hexabromobiphenyl	N.D.	5 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 MDL	限值 Limit
	002		
<b>多溴二苯醚 Polybrominated Diphenyl Ethers (PBDEs)</b>			
一溴二苯醚 Monobromodiphenyl ether	N.D.	5 mg/kg	1000 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	
六溴二苯醚 Hexabromodiphenyl ether	N.D.	5 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
	002		
<b>邻苯二甲酸酯 Phthalates (DBP, BBP, DEHP, DIBP)</b>			
邻苯二甲酸二丁酯 Dibutyl phthalate (DBP) CAS#:84-74-2	N.D.	50 mg/kg	1000 mg/kg
邻苯二甲酸丁基苯基酯 Butyl benzyl 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) CAS#:117-81-7	N.D.	50 mg/kg	1000 mg/kg
邻苯二甲酸二异丁酯 Diisobutyl phthalate (DIBP) CAS#:84-69-5	N.D.	50 mg/kg	1000 mg/kg

测试项目 Tested Item(s)	结果 Result	方法检出限 MDL	限值 Limit
	001		
<b>多溴联苯 Polybrominated Biphenyls (PBBs)</b>			
一溴联苯 Monobromobiphenyl	N.D.	5 mg/kg	1000 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	
六溴联苯 Hexabromobiphenyl	N.D.	5 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	



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测试项目 Tested Item(s)	结果 Result	方法检出限 MDL	限值 Limit
	001		
<b>多溴二苯醚 Polybrominated Diphenyl Ethers (PBDEs)</b>			
一溴二苯醚 Monobromodiphenyl ether	N.D.	5 mg/kg	1000 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	
六溴二苯醚 Hexabromodiphenyl ether	N.D.	5 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	

测试项目 Tested Item(s)	结果 Result	方法检出限 MDL	限值 Limit
	001		
<b>邻苯二甲酸酯 Phthalates (DBP, BBP, DEHP, DIBP)</b>			
邻苯二甲酸二丁酯 Dibutyl phthalate (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 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) CAS#:117-81-7	N.D.	50 mg/kg	1000 mg/kg
邻苯二甲酸二异丁酯 Diisobutyl phthalate (DIBP) CAS#:84-69-5	N.D.	50 mg/kg	1000 mg/kg

测试项目 Tested Item(s)	结果 Result	方法检出限 MDL
	004	
铍 Beryllium (Be)	N.D.	10 mg/kg

# 检测报告

## Test Report

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测试项目 Tested Item(s)	结果 Result	方法检出限 MDL
	005	
铍 Beryllium (Be)	N.D.	10 mg/kg

### 样品/部位描述 Sample/Part Description

序号 No.	CTI 样品 ID CTI Sample ID	描述 Description
1	001	银色镀层 Silvery plating
2	002	金属基材 Metal base
3	004	银色镀层 Silvery plating
4	005	金属基材 Metal base

**备注:** 对于检测铅, 镉, 汞, 铍之样品已消解完全。  
 -N.D. = 未检出 (小于方法检出限或定量限)  
 -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  $\mu\text{g}/\text{cm}^2$   
 - $\nabla$ 六价铬浓度小于 0.10  $\mu\text{g}/\text{cm}^2$ , 样品未检出六价铬。

**Remark:** The sample(s) had been dissolved totally tested for Lead, Cadmium, Mercury, Beryllium.  
 -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  $\mu\text{g}/\text{cm}^2$   
 - $\nabla$ The sample is negative for Cr(VI) – The Cr(VI) concentration is below 0.10  $\mu\text{g}/\text{cm}^2$ . 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。  
 “\*”表示该方法不在 CNAS 认可范围内。

**Note:** The testing data and result(s) in this report is(are) just for scientific research, education, internal quality control and product development etc.  
 “\*” indicates the method(s) is (are) not in CNAS accreditation scope.

# 检测报告 Test Report

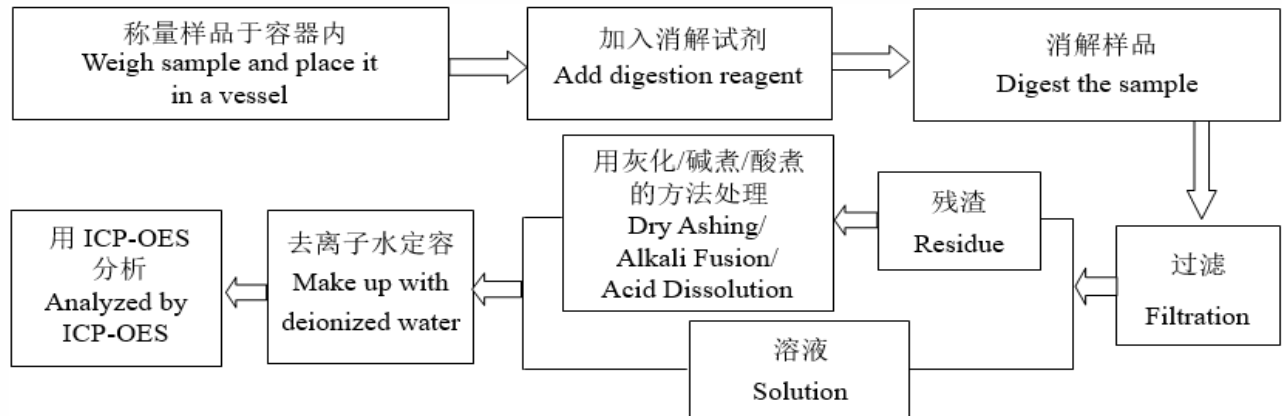
报告编号 A2230173541101001E  
Report No. A2230173541101001E

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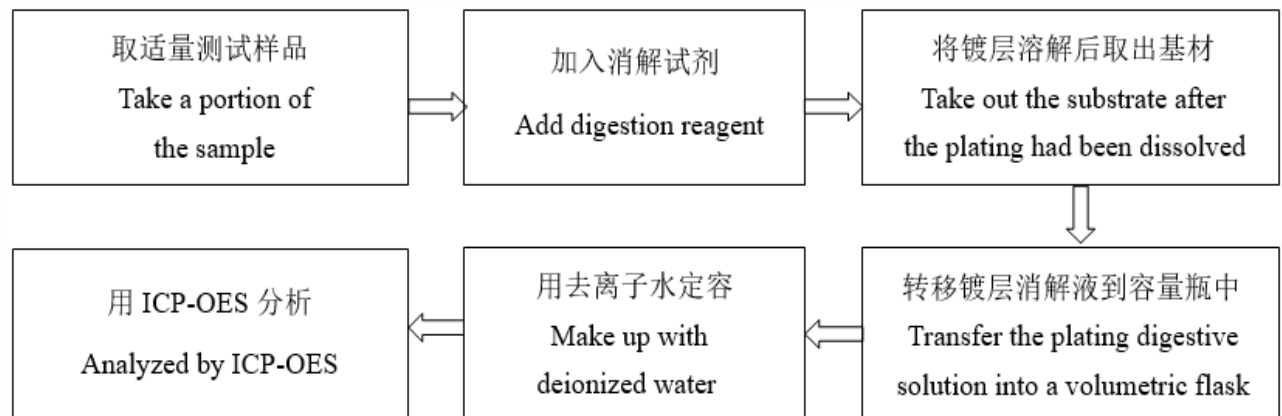
## 检测流程 Test Process

### 1. 铅 Lead (Pb), 镉 Cadmium (Cd)

#### (1) IEC 62321-5:2013



#### (2) 参考 IEC 62321-5:2013 Refer to IEC 62321-5:2013



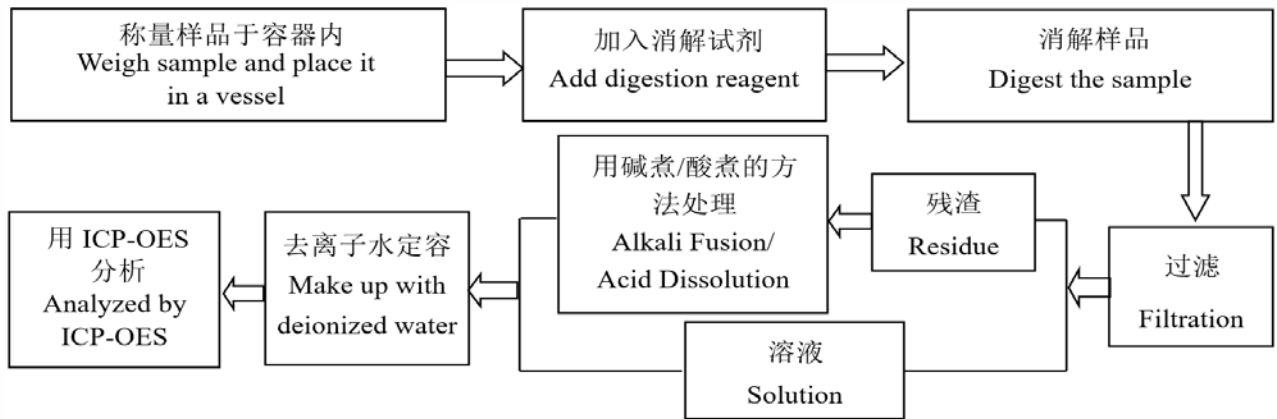
# 检测报告 Test Report

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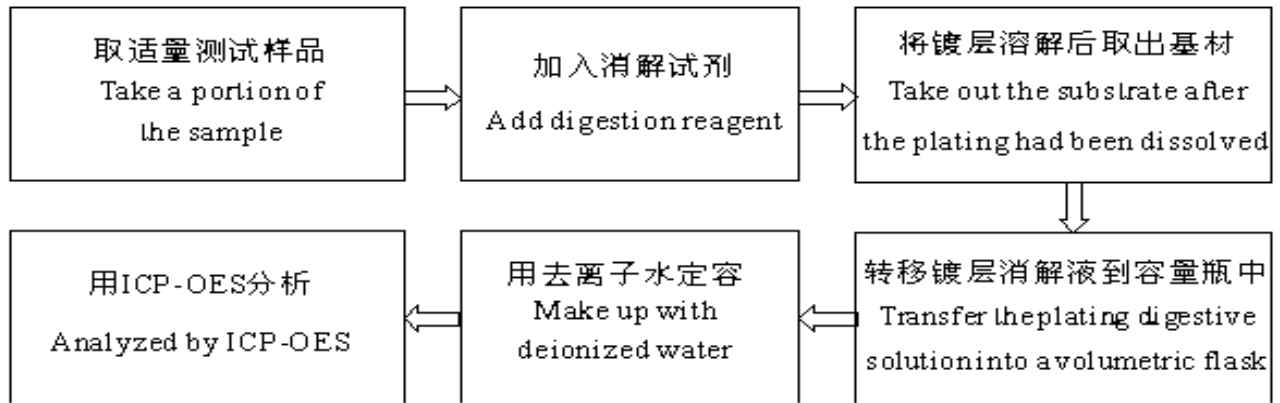
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## 2. 汞 Mercury (Hg)

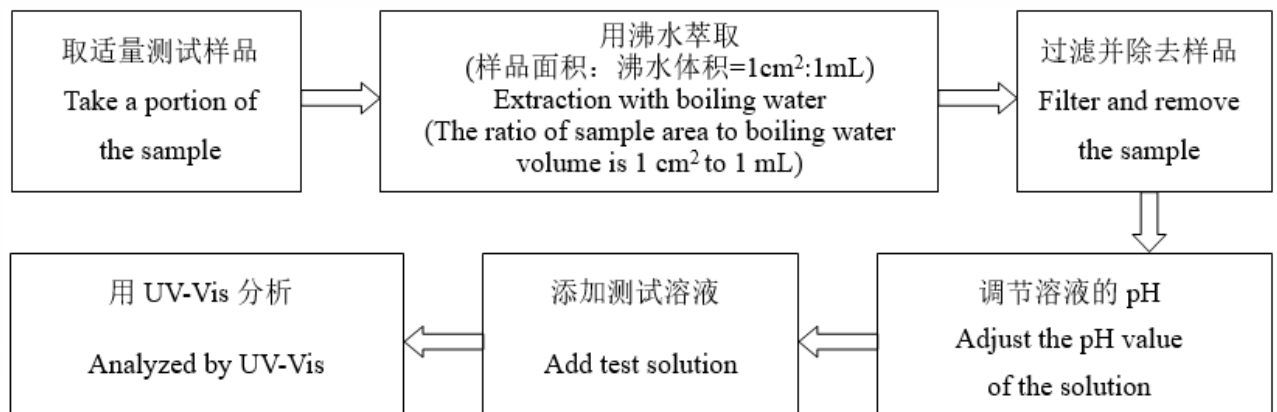
### (1) IEC 62321-4:2013+AMD1:2017 CSV



### (2) 参考 IEC 62321-4:2013+AMD1:2017 CSV Refer to IEC 62321-4:2013+AMD1:2017 CSV



## 3. 六价铬 Hexavalent Chromium (Cr(VI))

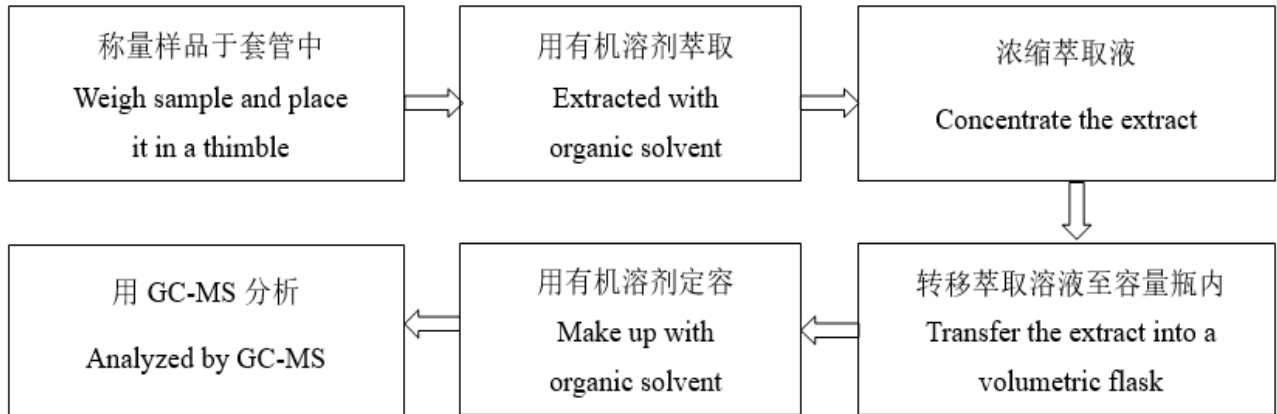


# 检测报告 Test Report

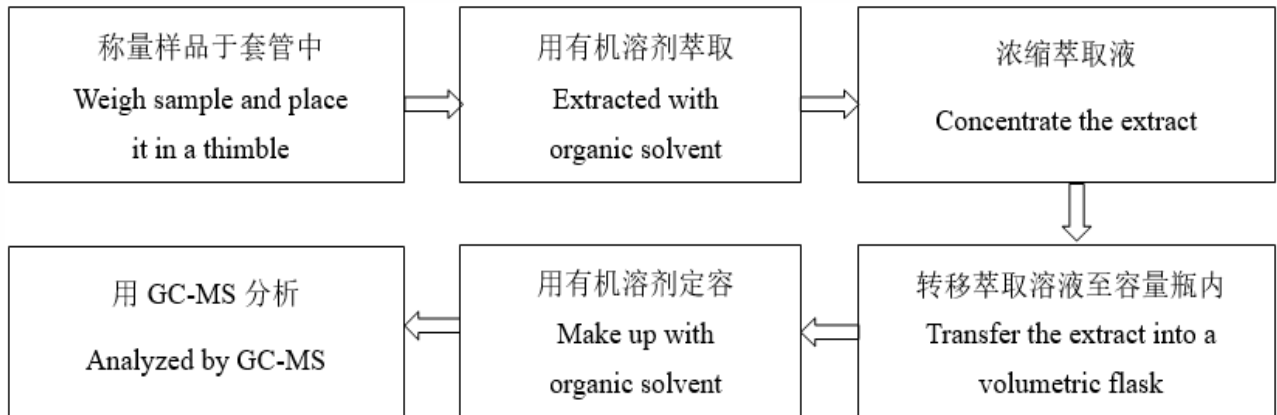
报告编号 A2230173541101001E  
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## 4. 多溴二苯醚 Polybrominated Diphenyl Ethers (PBDEs), 多溴联苯 Polybrominated Biphenyls (PBBs)

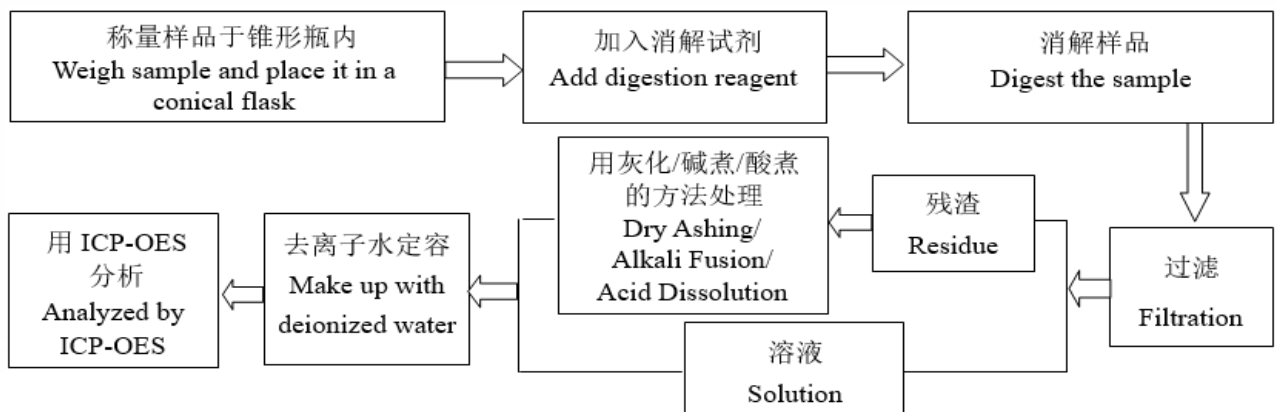


## 5. 邻苯二甲酸酯 Phthalates (DBP, BBP, DEHP, DIBP)



## 6. 铍 Beryllium(Be)

(1) 参考 US EPA 3050B:1996 & US EPA 6010D:2018 Refer to US EPA 3050B:1996 & US EPA 6010D:2018



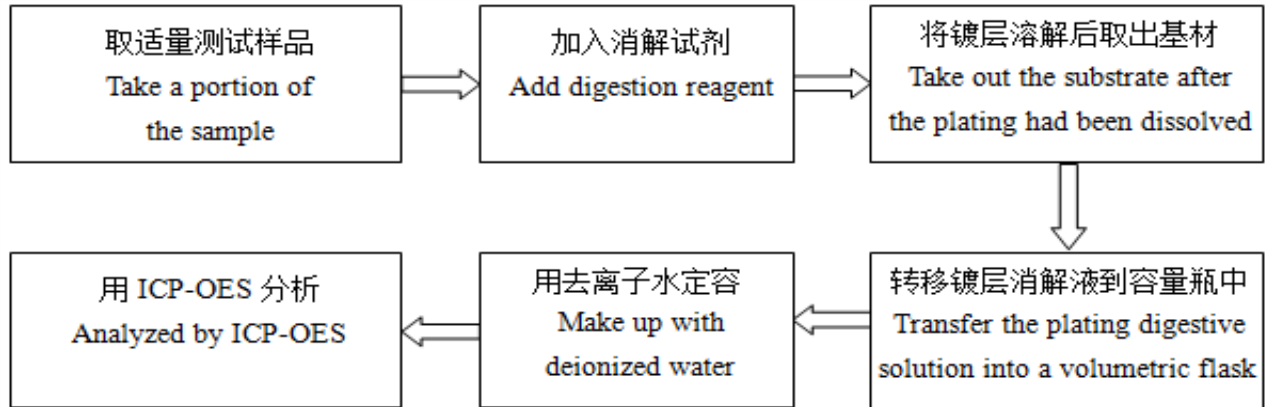


# 检测报告 Test Report

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(2) 参考 US EPA 3050B:1996 & US EPA 6010D:2018 Refer to US EPA 3050B:1996 & US EPA 6010D:2018(镀层 Plating)



# 检测报告 Test Report

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## 样品图片

Photo(s) of the sample(s)



# 检测报告

## Test Report

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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;  
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\*\*\* 报告结束 \*\*\*  
\*\*\* End of Report \*\*\*

# Test Report

No.: SHAEC23000346911

Date: Jan 13, 2023

Page 1 of 8

Client Name: DAIKIN FLUORO CHEMICALS(CHINA) CO., LTD.

Client Address: NO.8 JINYU ROAD(WEST) ADVANCED MATERIALS INDUSTRIAL PARK,CHANGSHU,JIANGSU 215522, CHINA

Sample Name: NEOFロン FEP

Model No.: NP-101

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

SGS Job No.: SP23-000872

Sample Receiving Date: Jan 10, 2023

Testing Period: Jan 10, 2023 - Jan 13, 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), Dibutyl phthalate (DBP), Butyl benzyl phthalate (BBP), Bis(2-ethylhexyl) phthalate (DEHP), and Diisobutyl phthalate (DIBP)	Pass
Tetrabromobisphenol A (TBBP-A)	See Results
Alkanes C14-C17, chloro (medium- chain chlorinated paraffins) (MCCPs)	See Results

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

Annie Liu

Annie Liu  
Approved Signatory



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**Test Result(s):**

Test Part Description:

SN ID	Sample No.	SGS Sample ID	Description
SN1	A2	SHA23-0003469-0001.C002	Translucent solid pellet

Remarks:

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

**EU RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU- Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBBs), Polybrominated diphenyl ethers (PBDEs), Dibutyl phthalate (DBP), Butyl benzyl phthalate (BBP), Bis(2-ethylhexyl) phthalate (DEHP), 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 IEC62321-8:2017, analysis was performed by ICP-OES, Hg analyzer, UV-Vis and GC-MS.

Test Item(s)	Limit	Unit(s)	MDL	A2
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



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# Test Report

No.: SHAEC23000346911

Date: Jan 13, 2023

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Test Item(s)	Limit	Unit(s)	MDL	A2
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.

**Tetrabromobisphenol A (TBBP-A)**

Test Method: With reference to SGS in house method, analysis was performed by GC-MS or LC-MS.

Test Item(s)	CAS No.	Unit(s)	MDL	A2
Tetrabromobisphenol A (TBBP-A)	79-94-7	mg/kg	5	ND

**Alkanes C14-C17, chloro (medium- chain chlorinated paraffins) (MCCPs)**

Test Method: With reference to ISO 22818:2021, analysis was performed by GC-NCI-MS.

Test Item(s)	CAS No.	Unit(s)	MDL	A2
Alkanes C <sub>14</sub> -C <sub>17</sub> , chloro (medium- chain chlorinated paraffins) (MCCPs)	85535-85-9 and others	mg/kg	50	ND

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.



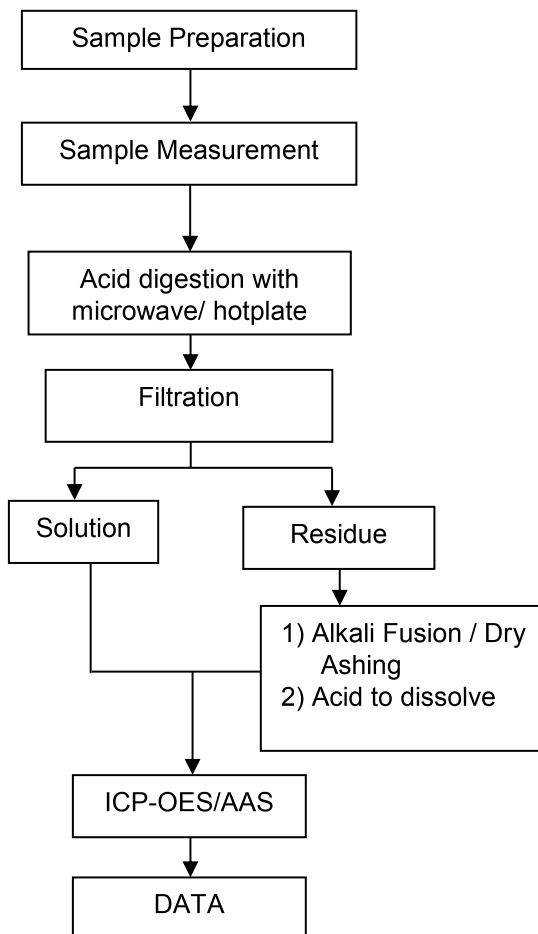
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**Elements (IEC62321) Testing Flow Chart**

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

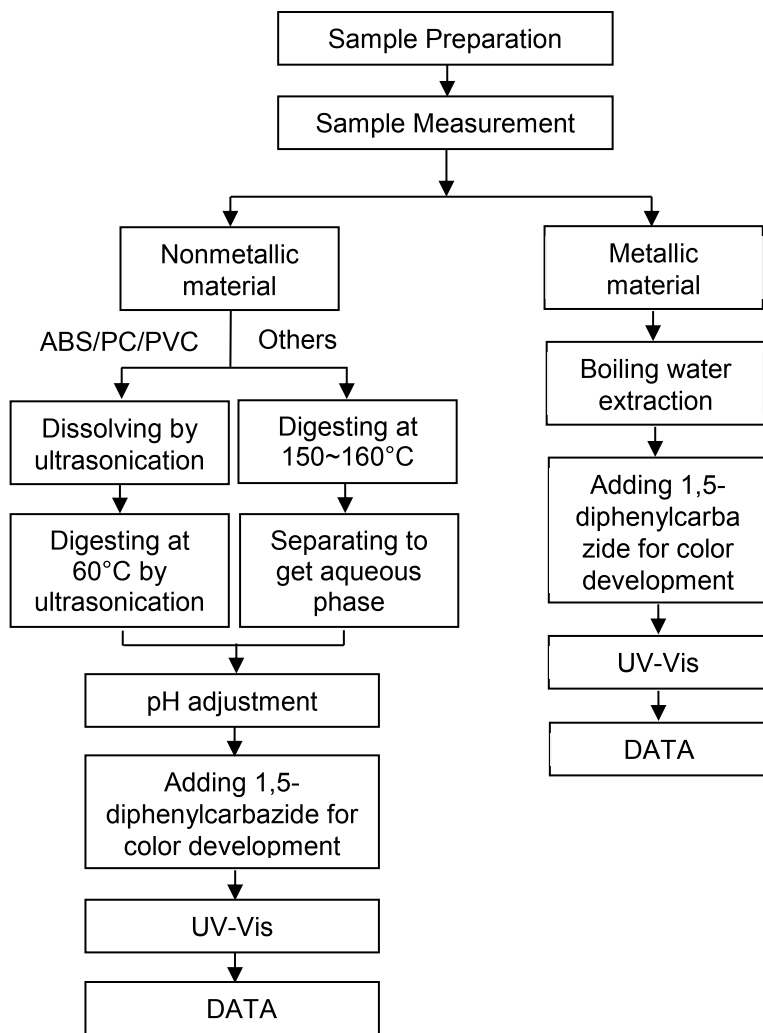


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### Hexavalent Chromium (Cr(VI)) Testing Flow Chart



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