承　认　书

SPECIFICATION　FOR　APPROVAL

客 户 名 称：	鈺緯科技開發股份有限公司
客 户 料 号:	3H210006900 (H0231)
产 品 名 称：	导电泡棉
规　　格：	100*8*3
供应商名称：	俐达科技电子（昆山）有限公司
日　　期：	2026/3/12

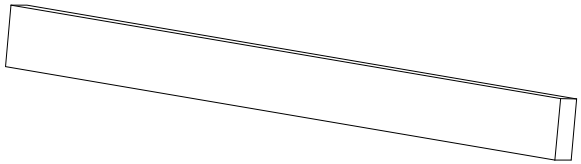
設計驗證
工程課
2026 -03- 16
發行
鈺緯科技開發股份有限公司

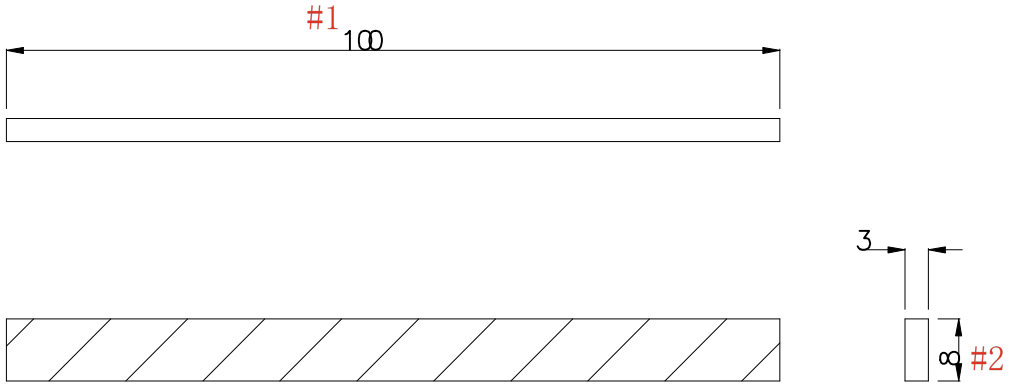
文　件　目　录

项目	文件名称	备注
1	承认书封面	
2	目录	
3	图纸	
4	FAI	
5	通用检验规范	
6	材质证明	
7	第三方测试	
8	MSDS	

中望CAD教育版设计

模具	☑刀模 □钢模 □刀钢模 □组合模 □其它（裁切）
冲制方式	☑半断 □全断 □全断留耳朵 □半断留耳朵
物料计算方式	导电泡棉+导电胶 =100*8/(16*1000)=0.05PCS
包装方式	180PCS/包，1800PCS/箱; 纸箱规格：250*150*150





NOTES:
1. EMI Effectiveness >94(300MHZ/db)
   >72(500MHZ/db)
2. Conductive Numerical: <0.05 Ω
3. Adhesive: Conductive acrylic
4. Adesion Strength: >1.0 kg/25mm2
5. Heat Resistance: -18~100
6. Tape Resistance: <0.05 Ω
7. Density: 50+-5 (Kg/M3)
8. Coating Thickness: 0.03mm
9. Color: Brown 棕色
10. Tolerencd refer to the class grade B, 公差等级
    unless other specified.



TOLERANCE UNLESS OTHERWISE SPECIFIED (±)							
CLASS	A	B	C	D	E	F	G
< 8mm	0.05	0.1	0.1	0.2	0.2	0.4	0.4
8 ~ 25mm	0.08	0.15	0.15	0.3	0.3	0.6	0.6
25 ~ 80mm	0.12	0.2	0.25	0.4	0.5	0.8	1.0
80 ~ 250mm	0.25	0.3	0.4	0.6	0.8	1.2	1.5
250 ~ 800mm	0.5	0.6	0.8	1.0	1.5	2.0	3.0
> 800mm	1.0	1.0	1.5	1.7	3.0	4.0	6.0
ANGLE	0.5	0.5	0.5	0.5	1.0	1.0	1.0

版本	变更内容	变更日期	符号	单位：mm	比例：1:1
1.0	新建	11-11-17		客户版本	
				制作日期	2011-11-17

制图	刘颂伟	页码	1/1	机种		客户	一厂	料号	3H210006900(H0231)		
审核		核准		材质	导电泡棉+导电胶			图号	CP-MJ-0035	版本: 1.0	

中望CAD教育版设计

Qisda Dimension Approval Sheet

Part No:3H210006900	Material：导电泡棉+导电胶
Desc：/	Color：
Model ：/	Date:：2026-3-12
Vender:：***LIH-DAR***	

Inspection Gauge:

			Disttibution	
Caliper .....(C)	Thickness Gauge ..... (T)	Gauge Block ..... (B	R&D	√
Micrometer ..... (M)	Height Gauge ..... (H)	Go. No-Go ..... (G	QC	√
Opt. Comparator ..... (O)	Dial Indicator ..... (D)	Microscope ..... (S	Purchase	
Pin Gauge .....(P)	Flexible Rule ..... (F)		Vender	√

Item	Check Code	Part Portion	Specifcation	+Tol	-Tol	Cav NO	Part Reading/Condition				Judge OK/NG	Remark
							Sample1	Sample2	Sample3	RD check sample		
1	1		100	0.3	-0.3		100.02	100.05	100.04	100.02	OK	
2	2		8	0.15	-0.15		8.03	8.03	8.04	8.02	OK	
3	3		3	0.1	-0.1		3.02	3.01	3.02	3.04	OK	
4												
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Initiator: 朱晓杏 Approved by:

俐达科技电子(昆山)有限公司

通用检验规范

	成品检验规格			文件编号	无
				REV	A
产品品名	/	适用料号	3H210006900	制定日期	2026/3/12
适用类型	□样件	□ 试产	☑量产	修订日期	2026/3/12

抽样检验计划和说明	检验类型	抽样计划	责任者	判定基准	记录表单	备注
	首件	5pcs/次	IPQC	Acc:0/Aej:1	首件报告	
	自检	每PCS	作业员	Acc:0/Aej:1	不良统计表	
	巡检	5PCS/每2H	IPQC	Acc:0/Aej:1	制程抽查记录表	
	入库	AQL=0.65	FQC	AQL对应值	成品检验日报	
	出库	S-3	OQC	AQL对应值	出货检验报表	
代表产品图片示例						

序号	检验项目	内容	检验工具	检验方法	检验类型					注意事项
					首件	自检	巡检	入库	出库	
1	尺寸	对应之工程图纸上标识尺寸	卡尺 厚度规 2次元	尺寸以(1)(2).(3)平均基准 2次元检验基准	●	●	●	●	●	长度和宽度
2	特殊检验	无	无							
3	外观	破损 脏污 划伤 变形 切割不良 毛边	目视	目视	●	●	●	●	●	
4	包装要求	包装统一 包装整齐 无破损	目视	目视				●	●	标签与实物相符合

核准: 廖子豪 **审核: 廖子豪** **制表:** 黄剑

常州永丰泡棉制造有限公司

物质性能表

品名	PU 阻燃泡棉		生产日期	2023.07		
规格	根据客户指定规格生产		材质	PU 泡棉		
主要成分	二苯亚甲基二异氰酸酯 53%（101-68-8），聚醚多元醇 20%（9003-11-6），聚醚醇 25%（3055-99-0），水 0.50%（7732-18-5），硅油 1.50%（63148-62-9）					
检测项目	单位	参照标准	要求值	实测值		
色泽	/	基本均匀	OK	OK	业务部	赵芸
气孔	/	不允许大于 3mm	OK	OK		
裂缝	/	不允许有裂缝	OK	OK	生产部	王斌
两侧表皮	/	不允许两侧有表皮	OK	OK		
污染	/	允许有轻微存在	OK	OK		
表观密度	Kg/m^3	GB6343	50±5	48	工程师	张梦楠
表面硬度	°	JIS.K6301A	90±5	92		
拉伸强度	KPA	GB/T 6344	≥160	170		
断裂载荷	N	GB/T 6344	≥15	18.43		
断裂伸长率	%	GB/T 6344	≥70	87.23		

ILD 压陷 25%力值	N	GB/T 10807	≥310	333		
ILD 压陷 40%力值	N	GB/T 10807	≥410	437		
ILD 压陷 65%力值	N	GB/T 10807	≥950	966		
永久压缩变形（25％）	%	GB/T 6669	≤8	7.3		

注：

1.泡棉测试时的室内温度为 24℃，相对湿度为 60%;

2.本公司试验室仪器同时符合以下国家质量标准：ASTM,CNS,JIS,CLE 等。

3.以上物性数据由本公司材料试验室提供，仅供参考。

审核： 张红晓　　测试员：胡芳

昆山帝晖电子科技有限公司
Kunshan Dihui Electronic Technology Co.,Ltd

技术参数资料/Technical Data Sheet

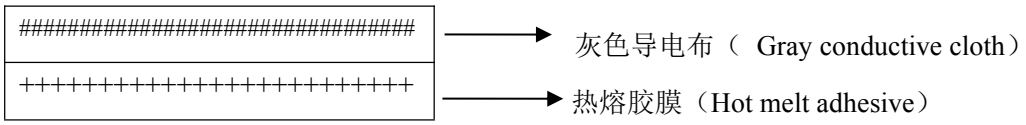
产品名称 Product name：	0.11T 灰色热熔布 0.11T gray hot melt cloth	产品编号 Product ID	DH04-18-021
文件编号 File NO	GC-WI-02-003.A	生效日期 Effective date	2025.6.12
编写人 Writer	邓文清 Deng Wen Qing	核准 Authorizer	朱雨婷 Zhu Yu Ting

1、适用范围/Scope of application

本说明书适用于本公司所生产的热熔布产品 DH04-18-021 的各项质量特性要求

This manual applies to the quality characteristics of the products made by the company DH04-18-021.

2、产品结构图/Product structure diagram



3、产品物性/Product Properties

明细/Item	单位/Unit	规格值/Spec.	试验标准/Test standard
基材/Base Material	/	Pet Fabric	/
颜色/Colour	/	Gray	/
厚度/Thickness	mm	0.11±0.015	FZ/T01003-1991
宽度/Width	mm	1060	GB/T4667-1995
熔融指数/ melt index	g/10min	25±5(160℃测验)	GB/T3682-2000
熔融范围/fusion range	℃	80-122	GB/T15332-94
表面电阻/Suface Resistivity	Ω/Sq	布面≤0.05	GB/T30139-2013 附录 B
屏蔽效能/Shielding Effectiveness	dB	＞70(30MHz-3GHz)	GB/T30142-2013
金属层结合力/Metal Adhesion	/	3 级	GB/T30139-2013 附录 C

地址：江苏省昆山市周市镇荷花浜路 66 号 TEL:0512-55387519 FAX : 0512-55387529

4、储存和保质期 Storage & Shelf Life:

4.1 存放条件：23±2℃ 65±5%RH，避光放置。

Optimum storage condition：23℃±2/65±5%RH and Keep in the dark place.

4.2 保质期：品质保证期为制造后 6 个月。

Expiration Date：Quality warranty is 6 months after manufacture 。

5、应用技术/Plied technology

5.1.使用时要达到最佳的粘接效果，粘接表面必须是洁净，干燥的。

To achieve the best bonding effect, the bonding surface must be clean and dry

5.2.使用时禁止松卷，防止导电布胶带起皱。速度：视设备操作参数变更。

It is forbidden to loose the tape when used to prevent the conductive cloth from wrinkling. Speed: Varies according to device operation parameters。

6、重要提示/Important note

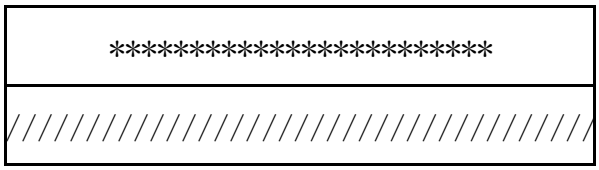
以上数据由实验室所做典型测试提供，仅供参考，不做产品验收之用。帝晖材料的使用和应用都是由最终用户负责，因为帝晖无法知道所有潜在用途。帝晖不保证特定或者一般用途的材料或产品的适应性，适用性的保证帝晖公司不应为任何类型的意外或间接的损失负责。帝晖承诺产品售后技术服务。

The above data are provided by typical laboratory tests for reference only, not for product acceptance. The use and application of Di Hui materials is the responsibility of the end user, as Di Hui cannot know all potential uses. Di Hui does not warrant the fitness of materials or products for specific or general use, and Di Hui shall not be liable for any kind of accidental or consequential damages. Di Hui commitment to product after-sales technical services。

地址：江苏省昆山市周市镇荷花浜路 66 号 TEL:0512-55387519 FAX : 0512-55387529

深圳市皓嘉科技有限公司

ShenZhen HaoJia Technology Co., Ltd

代号 Code	HJ-L105	品名 MARTICLE NAME	导电无基材胶带
产品结构 PRODUCT CONSTRUCTION		→ 压 克力胶+镍粉 → 无基材离型纸	
基材 SUBSTRATE		底纸 LINER	
材料名称 MARTICLE NAME	/	材料名称 MARTICLE NAME	无基材离型纸
厚度(mm) THICKNESS	/	厚度(mm) THICKNESS	0.13
基重(g/m2) BASIC WEIGHT	/	基重(g/m2) BASIC WEIGHT	
颜色 COLOR	/	颜色 COLOR	白色
平滑度 SMOOTHNESS	/	平滑度 SMOOTHNESS	GOOD
印刷性 PRINTABILITY	/	斩性 DIE CUTTING	GOOD
粘胶 PRESSURE-SENSITIVE ADHESIVE			
胶系 ADHESIVE	压克力胶	初期力(NO/BALL) INITIAL TACK	3# - 10#
总厚度(mm) TOTAL THICKNESS	0.05±0.005	粘着力(kg/25mm) 180° PEELING ADHESIVE	1.2- 1.8
耐温℃ Temperature Resistance	-10~100	保持力(hr/kg*25mm) HOLDING STRENGTH	24↑
电 阻 Ω Resistance	垂直 0.05↓ 水平 0.1↓	适用湿度% Humidity	0~95
耐候性 WERTHER RESISTANCE	Normal	耐溶剂 SOLVENT RESISTANCE	Normal

备注:以上诸项技术资料乃本公司采用公认可靠之检验方法,经多次检验所得之平均数据,但为确保正确选择与使用本公司之产品,请你基于使用对象,先行对使用目的与使用条件作详尽了解与试用,或通知本公司,以便为你提供更进一步的说明与服务。

REMARK: THE TECHNICAL DATA ARE BASED ON THE RELIABLE EXPERIMENTS CARRIED BY THE COMPANY WHICH, HOWEVER ,IS NOT TO GAURANTEE THOSE PROPERTIES AND CHARACTERISTICS ARE COMPLETELY AS SPECIFIED. THEREIN, KINDLY STUDY YOUR PURPOSE AND CONDITION TO USE THIS PRODUCT IS NEEDED.

制订日期:2015　　修订日期:　　当前版本：A

CTI 华测检测

221020340516

中国认可
国际互认
检测
TESTING
CNAS L4429

检测报告
Test Report

报告编号 A2250852654101001E
Report No. A2250852654101001E

报告抬头公司名称 常州永丰泡棉制造有限公司
Company Name shown on Report CHANGZHOU YONGFENG FOAM MANUFACTURE CO.LTD.
地 址 江苏省常州市天宁区三河口朝阳路
Address CHANGYANG ROAD,SANHEKOU,TIANNING DISTRICT,CHANGZHOU 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	PU泡棉
Sample Name	PU Foam
样品颜色	黑色
Color	black
样品接收日期	2025.11.17
Sample Received Date	Nov. 17, 2025
样品检测日期	2025.11.17-2025.11.18
Testing Period	Nov. 17, 2025 to Nov. 18, 2025

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)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) 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: 宋岩
技术经理 Technical Manager

日 期
Date 2025.11.18

苏州市华测检测技术有限公司
Centre Testing International(Suzhou) Co.,Ltd
No. R449751534
江苏省苏州市相城区澄阳路3286号
No.3286Chengyang Road, Xiangcheng District, Suzhou,Jiangsu

检测报告
Test Report

检测依据 Test Method

测试项目 Test Item(s)	测试方法 Test Method	测试仪器 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
六价铬 Hexavalent Chromium (Cr(VI))	IEC 62321-7-2:2017和/或IEC 62321-5:2013测试总铬含量 IEC 62321-7-2:2017 and/or determination of Total Chromium by IEC 62321-5:2013	UV-Vis/ICP-OES
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

检测报告
Test Report

报告编号 A2250852654101001E
Report No. A2250852654101001E

检测结果 Test Result(s)

测试项目 Tested Item(s)	结果 Result	方法检出限 MDL
	001	
铅 Lead (Pb)	N.D.	2 mg/kg
镉 Cadmium (Cd)	N.D.	2 mg/kg
汞 Mercury (Hg)	N.D.	2 mg/kg
六价铬 Hexavalent Chromium (Cr(VI))	N.D.	8 mg/kg

测试项目 Tested Item(s)	结果 Result	方法检出限 MDL
	001	
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
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
	001	
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
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

检测报告
Test Report

报告编号 A2250852654101001E
Report No. A2250852654101001E

检测结果 Test Result(s)

测试项目 Tested Item(s)	结果 Result	方法检出限 MDL
	001	
邻苯二甲酸酯 Phthalates (DBP, BBP, DEHP, DIBP)		
邻苯二甲酸二丁酯 Dibutyl phthalate (DBP) CAS#:84-74-2	N.D.	50 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
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
邻苯二甲酸二异丁酯 Diisobutyl phthalate (DIBP) CAS#:84-69-5	N.D.	50 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	黑色泡棉 Black foam

备注: **对于检测铅，镉，汞之样品已消解完全。**
-N.D. = 未检出（小于方法检出限）
-mg/kg = ppm = 百万分之一

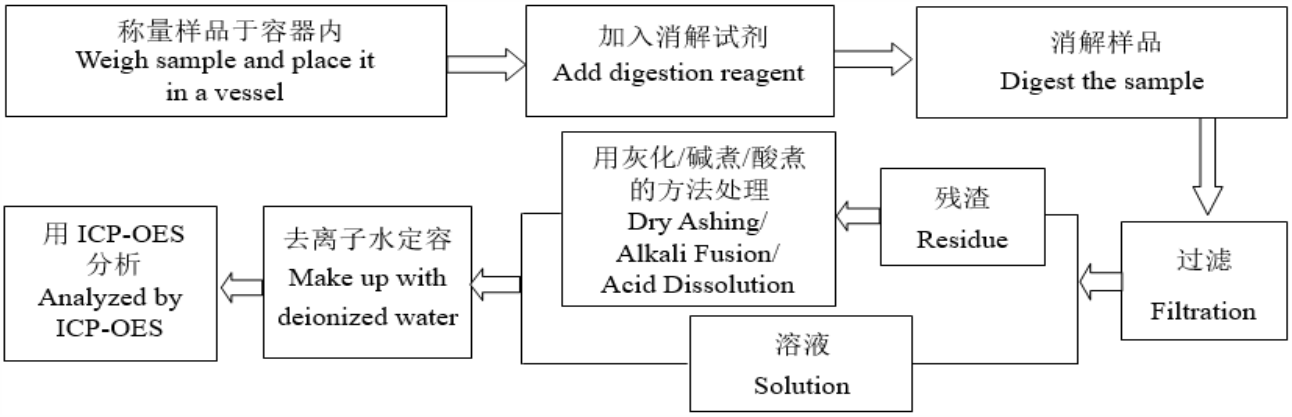
Remark: **The sample(s) had been dissolved totally tested for Lead, Cadmium, Mercury.**
-MDL = Method Detection Limit
-N.D. = Not Detected (<MDL)
-mg/kg = ppm = parts per million

检测报告
Test Report

检测流程 Test Process

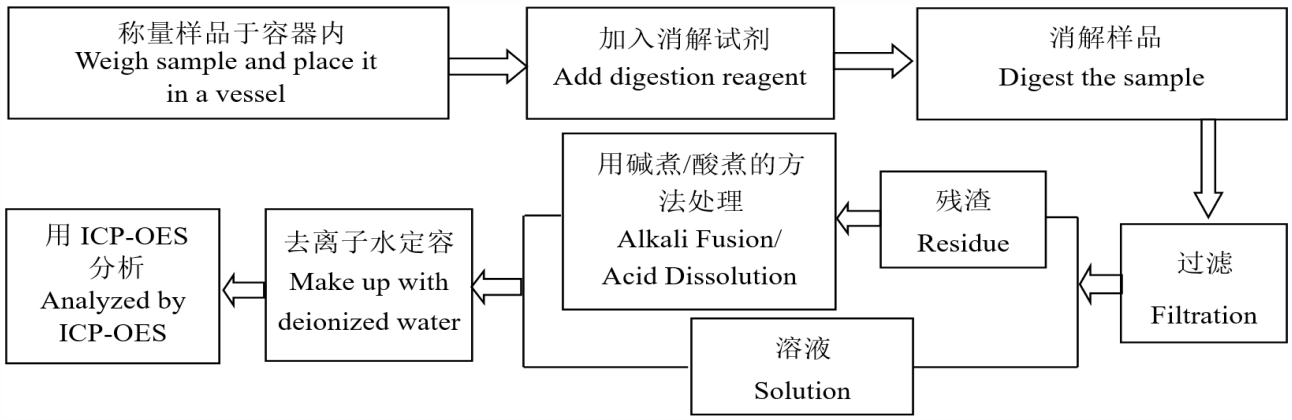
1. **铅(Pb)，镉(Cd)，铬(Cr)**

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



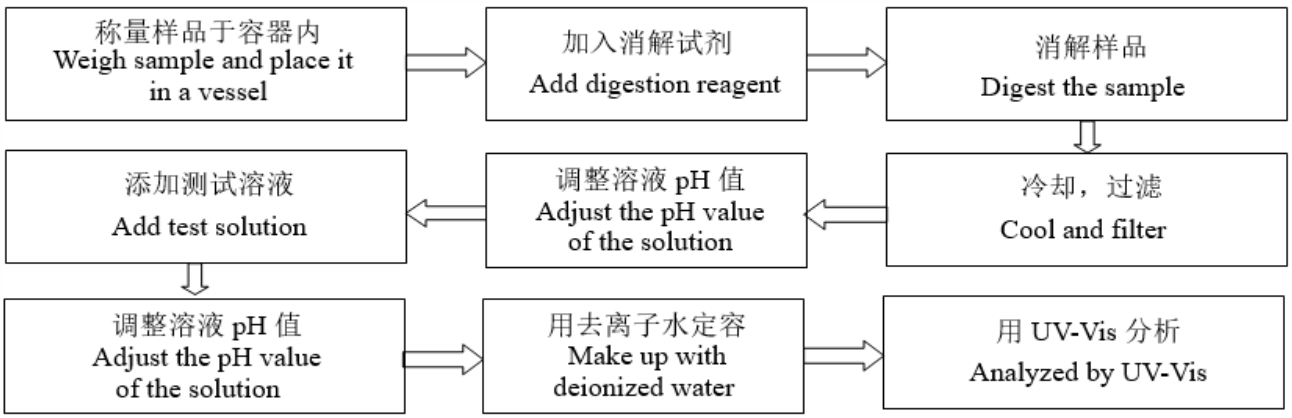
2. **汞(Hg)**

Mercury (Hg)

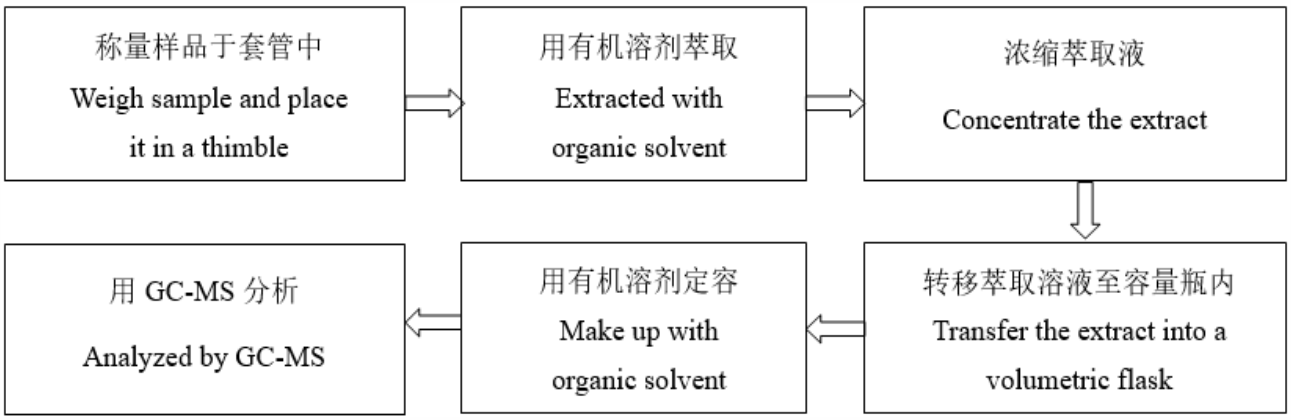


3. **六价铬(Cr(VI))**

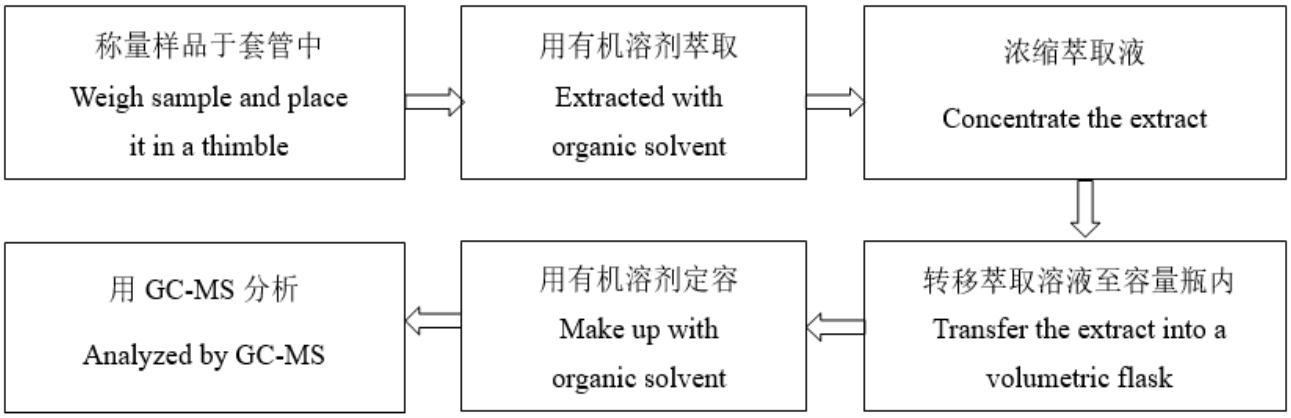
Hexavalent Chromium (Cr(VI))



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

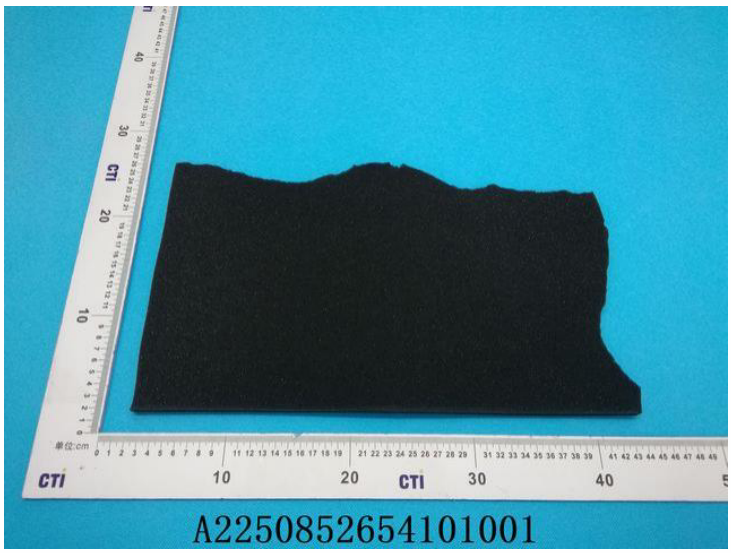


5. 邻苯二甲酸酯(DBP， BBP， DEHP， DIBP)
Phthalates (DBP, BBP, DEHP, DIBP)



检测报告
Test Report

样品图片
Photo(s) of the sample(s)



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附录Appendix

客户参考信息Client Reference Information

B324、B340、B340F、B329、B332、B332F、B330、B350F、B380、B380F、 B380NF、 205F、泡棉-W(23度)、PU-Y泡棉、CF-B、CF-Y、CF-BU、防尘网、过滤网、F2、F-2G、LH-20、NF55 、50D无卤阻燃、650 、650R、CF45、CF55、CF65、CF-G、惰性泡棉、 压缩泡棉、吸音棉、TM-23、TM-24、TM-25、TM-27、SM55、P1800、TC50、TC50-G、TC60、K324、K329、K401、K402、K403、B205、B208、MF-15、MF-20、MF-25、MF-30、MF-35、MF-40、MF-45、MF-50、MF-55、L068、L168、L268、L368、L468、黑色PU、HS650、H850、D12、D18、P1800, LD100, LD300, LD500

B324、B340、B340F、B329、B332、B332F、B330、B350F、B380、B380F、 B380NF、 205F、Foam-W(23 degree)、PU-Y Foam、CF-B、CF-Y、CF-BU、dust-proof nets、filters、F2、F-2G、LH-20、NF55 、50D halogen free flame retardant、650 、650R、CF45、CF55、CF65、CF-G、the inert foam、 Compressed foam、Sound-absorbing Foam、TM-23、TM-24、TM-25、TM-27、SM55、P1800、TC50、TC50-G、TC60、K324、K329、K401、K402、K403、B205、B208、MF-15、MF-20、MF-25、MF-30、MF-35、MF-40、MF-45、MF-50、MF-55、L068、L168、L268、L368、L468、Black PU、HS650、H850、D12、D18、P1800, LD100, LD300, LD500

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   The Appendix Information is/are the supplement(s) for the Report A2250852654101001E.

检测报告
Test Report

报告编号 A2250852654101002E
Report No. A2250852654101002E

报告抬头公司名称 常州永丰泡棉制造有限公司
Company Name shown on Report CHANGZHOU YONGFENG FOAM MANUFACTURE CO.LTD.
地 址 江苏省常州市天宁区三河口朝阳路
Address CHANGYANG ROAD,SANHEKOU,TIANNING DISTRICT,CHANGZHOU 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	PU泡棉
Sample Name	PU Foam
样品颜色	黑色
Color	black
样品接收日期	2025.11.17
Sample Received Date	Nov. 17, 2025
样品检测日期	2025.11.17-2025.11.18
Testing Period	Nov. 17, 2025 to Nov. 18, 2025

检测要求 根据客户要求，对所提交样品中的氟(F)，氯(Cl)，溴(Br)，碘(I)进行测试。
Test Requested As specified by client, to test Fluorine (F), Chlorine (Cl), Bromine (Br), Iodine (I) 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: 宋岩
宋岩
技术经理 Technical Manager

日 期
Date 2025.11.18

苏州市华测检测技术有限公司
Centre Testing International(Suzhou) Co.,Ltd

No. R449751534
江苏省苏州市相城区澄阳路3286号
No.3286Chengyang Road, Xiangcheng District, Suzhou,Jiangsu

CTI 华测检测

检测报告
Test Report

检测依据 Test Method

测试项目 Test Item(s)	测试方法 Test Method	测试仪器 Measured Equipment(s)
氟 Fluorine (F)	EN 14582:2016	IC
氯 Chlorine (Cl)	EN 14582:2016	IC
溴 Bromine (Br)	EN 14582:2016	IC
碘 Iodine (I)	EN 14582:2016	IC

检测结果 Test Result(s)

测试项目 Tested Item(s)	**结果 Result**	**方法检出限 MDL**
	002	
氟 Fluorine (F)	N.D.	10 mg/kg
氯 Chlorine (Cl)	N.D.	10 mg/kg
溴 Bromine (Br)	N.D.	10 mg/kg
碘 Iodine (I)	N.D.	10 mg/kg

样品/部位描述 Sample/Part Description

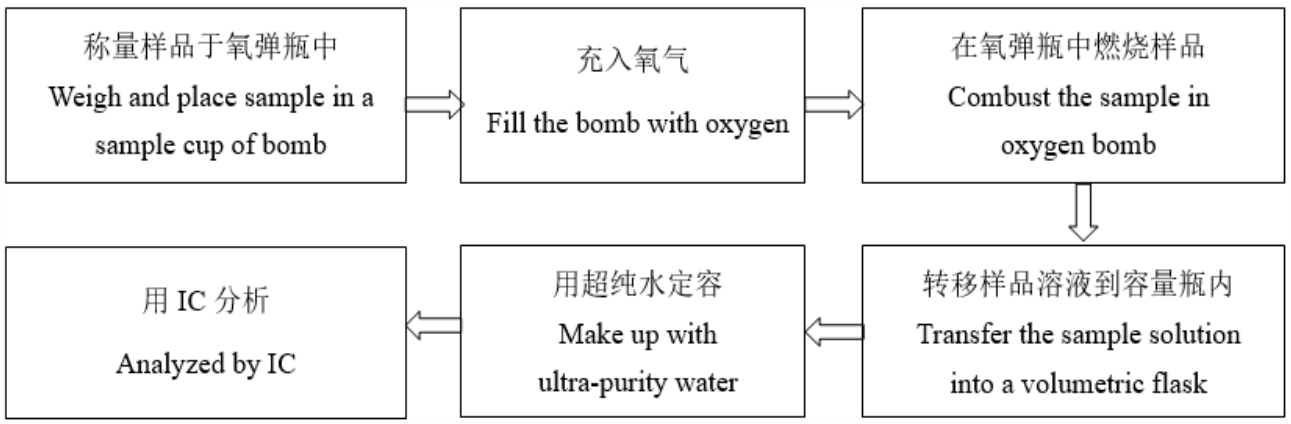
序号 No.	CTI样品ID CTI Sample ID	描述 Description
1	002	黑色泡棉 Black foam

备注: -N.D. = 未检出（小于方法检出限）
-mg/kg = ppm = 百万分之一

Remark: -MDL = Method Detection Limit
-N.D. = Not Detected (<MDL)
-mg/kg = ppm = parts per million

检测报告
Test Report

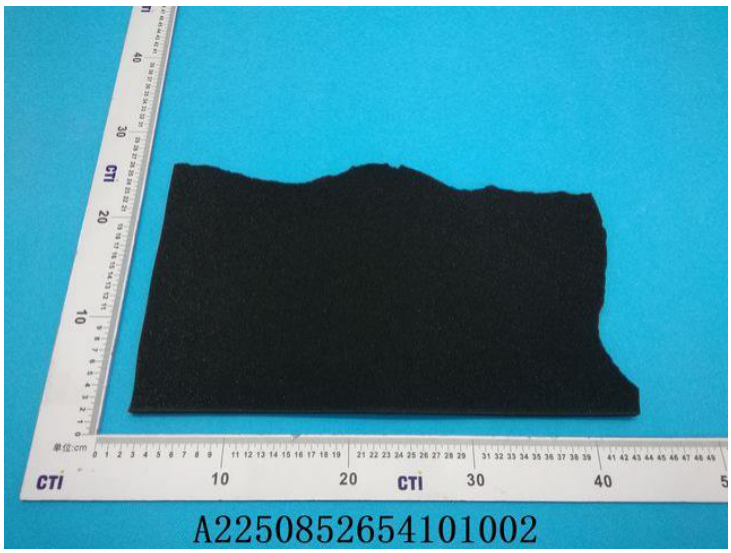
检测流程 Test Process



检测报告
Test Report

报告编号 A2250852654101002E
Report No. A2250852654101002E

样品图片
Photo(s) of the sample(s)



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   The Appendix Information is/are the supplement(s) for the Report A2250852654101002E.

Test Report

No.: SHAEC26000658107 **Date:** Jan 14, 2026

Client Name: KUNSHAN DIHUI ELECTRONIC TECHNOLOGY CO.,LTD

Client Address: No. 66, He Hua Bang Road, Zhou City, Kunshan

Sample Name: Gray Conductive Cloth

Client Ref. Information: DH-NBT DH-BT DH-BG DH-CFPW DH-CFGW DH-CFNW DHPM DH04-**-***DH05-**-***DH06-**-***DH07-**-***DH08-**-***DH13-**-***DH14-**-***DH20-**-***DH40-**-***DH53-**-***DH75-**-***DH54-**-***DH77-**-***DH70-**-***DH81-**-***DH21-**-***DH23-**-***DH39**-***DH64-**-***DH-HM DH-CFPW-HM DHPM Products

Main Substance: PET+CU+NI

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

SGS Job No.: TIC1020260107141111IYLM

Sample Receiving Date: Jan 08, 2026

Testing Period: Jan 08, 2026 ~ Jan 14, 2026

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

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

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

Test Requirement	Conclusion
EU RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU - Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBB), Polybrominated diphenyl ethers (PBDE), Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP) and Diisobutyl phthalate (DIBP)	Pass
AfPS GS 2019:01 PAK-Polycyclic Aromatic Hydrocarbons (PAHs)	See Results
Element(s)*	See Results
Hexabromocyclododecane (HBCDD)	See Results
Halogen	See Results
PFOS, its salts and related compounds,PFOA, its salts*	See Results

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

Jenny Lan
Approved Signatory

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4ABAFC50

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Test Result(s):

Test Part Description:

SN ID	Sample No.	SGS Sample ID	Description
SN1	A4	SHA26-0006581-0001.C004	Gray soft solid

Remarks:

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

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

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

Test Item(s)	Limit	Unit(s)	MDL	A4
Lead (Pb)	1000	mg/kg	2	ND
Mercury (Hg)	1000	mg/kg	2	ND
Cadmium (Cd)	100	mg/kg	2	ND
Hexavalent Chromium (Cr(VI))	1000	mg/kg	8	ND
Polybromobiphenyl (PBB)	1000	mg/kg	-	ND
Monobrominated biphenyl (MonoBB)	-	mg/kg	5	ND
Dibrominated biphenyl (DiBB)	-	mg/kg	5	ND
Tribrominated biphenyl (TriBB)	-	mg/kg	5	ND
Tetrabrominated biphenyl (TetraBB)	-	mg/kg	5	ND
Pentabrominated biphenyl (PentaBB)	-	mg/kg	5	ND
Hexabrominated biphenyl (HexaBB)	-	mg/kg	5	ND
Heptabrominated biphenyl (HeptaBB)	-	mg/kg	5	ND
Octabrominated biphenyl (OctaBB)	-	mg/kg	5	ND
Nonabrominated biphenyl (NonaBB)	-	mg/kg	5	ND
Decabrominated biphenyl (DecaBB)	-	mg/kg	5	ND
Polybromodiphenyl ether(PBDE)	1000	mg/kg	-	ND
Monobrominated diphenyl ether (MonoBDE)	-	mg/kg	5	ND
Dibrominated diphenyl ether (DiBDE)	-	mg/kg	5	ND
Tribrominated diphenyl ether (TriBDE)	-	mg/kg	5	ND
Tetrabrominated diphenyl ether (TetraBDE)	-	mg/kg	5	ND
Pentabrominated diphenyl ether (PentaBDE)	-	mg/kg	5	ND
Hexabrominated diphenyl ether (HexaBDE)	-	mg/kg	5	ND
Heptabrominated diphenyl ether (HeptaBDE)	-	mg/kg	5	ND

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SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. Chemical Laboratory

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t E&E (86-21) 61402553 www.sgsgroup.com.cn
t HL (86-21) 61402594 sgs.china@sgs.com

Test Item(s)	Limit	Unit(s)	MDL	A4
Octabrominated diphenyl ether (OctaBDE)	-	mg/kg	5	ND
Nonabrominated diphenyl ether (NonaBDE)	-	mg/kg	5	ND
Decabrominated diphenyl ether (DecaBDE)	-	mg/kg	5	ND
Bis(2-ethylhexyl) phthalate (DEHP)	1000	mg/kg	50	ND
Butyl benzyl phthalate (BBP)	1000	mg/kg	50	ND
Dibutyl phthalate (DBP)	1000	mg/kg	50	ND
Diisobutyl phthalate (DIBP)	1000	mg/kg	50	ND

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

AfPS GS 2019:01 PAK-Polycyclic Aromatic Hydrocarbons (PAHs)

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

Test Item(s)	CAS No.	Unit(s)	MDL	A4
Benzo(a)pyrene(BaP)	50-32-8	mg/kg	0.1	ND
Benzo(e)pyrene(BeP)	192-97-2	mg/kg	0.1	ND
Benzo(a)anthracene(BaA)	56-55-3	mg/kg	0.1	ND
Benzo(b)Fluoranthene(BbF)	205-99-2	mg/kg	0.1	ND
Benzo(j)fluoranthene(BjF)	205-82-3	mg/kg	0.1	ND
Benzo(k)Fluoranthene(BkF)	207-08-9	mg/kg	0.1	ND
Chrysene(CHR)	218-01-9	mg/kg	0.1	ND
Dibenzo(a,h)Anthracene(DBA)	53-70-3	mg/kg	0.1	ND
Benzo(g,h,i)perylene(BPE)	191-24-2	mg/kg	0.1	ND
Indeno(1,2,3-c,d)pyrene(IPY)	193-39-5	mg/kg	0.1	ND
Phenanthrene(PHE)	85-01-8	mg/kg	0.1	ND
Pyrene(PYR)	129-00-0	mg/kg	0.1	ND
Anthracene(ANT)	120-12-7	mg/kg	0.1	ND
Fluoranthene(FLT)	206-44-0	mg/kg	0.1	ND
Sum of Phenanthrene(PHE), Pyrene(PYR), Anthracene(ANT), Fluoranthene(FLT)	-	mg/kg	-	ND
Naphthalene(NAP)	91-20-3	mg/kg	0.1	ND
Sum of 15 PAHs	-	mg/kg	-	ND
Material Category	-	-	-	-

Notes:
AfPS（German commission for Product Safety）: PAHs requirements

Parameter	Category 1	Category 2	Category 3

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	Materials intended to be placed in the mouth, or materials coming into long-term contact with skin (more than 30s) during the intended use -in toys according to Directive 2009/48/EC or -for the use by children[a,b] up to 3 years of age.	Materials not covered by category 1, coming into long-term contact (more than 30s) or short-term repetitive contact[c] with skin during the intended or foreseeable use[d].		Materials covered neither by category 1 nor by category 2, coming into short-term contact (up to 30s) with skin during the intended or foreseeable use.	
		a. use by children	b. other consumer products	a. use by children	b. other consumer products
Benzo(a)pyrene (BaP) mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo(e)pyrene (BeP) mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo(a)anthracene (BaA) mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo(b)fluoranthene (BbF) mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo(j)fluoranthene (BjF) mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo(k)fluoranthene (BkF)mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Chrysene (CHR) mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Dibenzo(a,h)anthracene (DBA) mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo(g,h,i)perylene (BPE) mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Indeno(1,2,3-cd)pyrene (IPY) mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Phenanthrene (PHE), pyrene (PYR), anthracene (ANT), fluoranthene (FLT), mg/kg	< 1 Sum	< 5 Sum	< 10 Sum	< 20 Sum	< 50 Sum
Naphthalene (NAP) mg/kg	< 1	< 2		< 10	

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Sum of 15 PAHs	<1	< 5	< 10	< 20	< 50

Notes:
[a] A “Child” is legally defined as a person before reaching the age of 14 years.
[b] Use by children includes both active and passive contact by children.
[c] Definition “short-term repetitive contact” taken from REACH Annex XVII entry 50 amendment (Regulation (EC) No.1272/2013)
[d] According to the definition of the German Product Safety Act (ProdSG) (chapter 1 Article 2 No. 28) “foreseeable use” shall mean the use of a product in a manner that the person placing it on the market, has not intended, but which could be reasonably foreseeable.

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

Element(s)*

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

Test Item(s)	Unit(s)	MDL	A4
Beryllium(Be)	mg/kg	5	ND
Antimony(Sb)	mg/kg	10	105

Hexabromocyclododecane (HBCDD)

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

Test Item(s)	CAS No.	Unit(s)	MDL	A4
Hexabromocyclododecane (HBCDD)	134237-50-6 /134237-51-7 /134237-52-8 /25637-99-4 /3194-55-6	mg/kg	20	ND

Halogen

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

Test Item(s)	Unit(s)	MDL	A4
Fluorine(F)	mg/kg	20	ND
Chlorine(Cl)	mg/kg	50	ND
Bromine(Br)	mg/kg	50	ND
Iodine(I)	mg/kg	50	ND

PFOS, its salts and related compounds,PFOA, its salts*

Test Method: Modified EN 17681-1:2025, analysis was performed by LC-MS or LC-MS/MS.

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Test Item(s)	CAS No.	Unit(s)	MDL	A4
PFOS, its salts				
Perfluorooctane sulfonic acid (PFOS), its salts^	1763-23-1	mg/kg	0.010	ND
PFOS-related compounds				
N-ethylperfluoro-1-octanesulfonamide (N-EtFOSA)	4151-50-2	mg/kg	0.010	ND
N-methylperfluoro-1-octanesulfonamide (N-MeFOSA)	31506-32-8	mg/kg	0.010	ND
2-(N-ethylperfluoro-1-octanesulfonamido)-ethanol (N-EtFOSE)	1691-99-2	mg/kg	0.010	ND
2-(N-methylperfluoro-1-octanesulfonamido)-ethanol (N-MeFOSE)	24448-09-7	mg/kg	0.010	ND
Perfluorooctane Sulfonamide (PFOSA), its salts^	754-91-6	mg/kg	0.010	ND
Perfluorooctane sulfonamidoacetic Acid (FOSAA), its salts^	2806-24-8	mg/kg	0.010	ND
N-Methylperfluoro-1-octanesulfonamidoacetic Acid (N-MeFOSAA), its salts^	2355-31-9	mg/kg	0.010	ND
N-Ethylperfluorooctane sulfonamidoacetic Acid (N-EtFOSAA), its salts^	2991-50-6	mg/kg	0.010	ND
Sum of PFOS-related compounds	-	mg/kg	-	ND
PFOA, its salts				
Perfluorooctanoic acid (PFOA), its salts^	335-67-1	mg/kg	0.010	ND

Notes:

1. ^=Substances refer to its salts/derivative listed in below table.

Substances Name	**CAS No.**
PFOS, its salts & derivatives	
Perfluorooctane sulfonic acid (PFOS)	1763-23-1
Potassium Perfluorooctanesulfonate (PFOS-K)	2795-39-3
Perfluorooctanesulfonic acid, lithium salt (PFOS-Li)	29457-72-5
Sodium perfluorooctanesulfonate (PFOS-Na)	4021-47-0
Ammonium perfluorooctanesulfonate (PFOS-NH_4)	29081-56-9
Perfluorooctane sulfonate diethanolamine salt (PFOS-$NH_2(C_2H_4OH)_2$)	70225-14-8
Perfluorooctanesulfonic acid,tetraethylammonium salt (PFOS-$N(C_2H_5)_4$)	56773-42-3
N-decyl-N,N-dimethyldecan-1-aminium 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluorooctane-1-sulfonate (PFOS-$N(C_{10}H_{21})_2(CH_3)_2$)	251099-16-8
TetrabutylAmmonium perfluorooctanesulfonate (PFOS-$N(C_4H_9)_4$)	111873-33-7
Perfluorooctane Sulfonyl fluoride (PFOS-F)	307-35-7
Magnesium bis(heptadecafluorooctanesulphonate) (PFOS-Mg)	91036-71-4
Piperidine 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluorooctanesulfonate	71463-74-6
Perfluorooctanesulfonate	45298-90-6
Triethylammonium perfluorooctane sulfonate (PFOS-$NH(C_2H_5)_3$)	54439-46-2
Tetramethylammonium perfluorooctane sulfonate (PFOS-$N(CH_3)_4$)	56773-44-5
N,N,N-Tripropylpentan-1-aminium heptadecafluorooctane-1-sulfonate (PFOS-$N(C_3H_7)_3(C_5H_{11})$)	56773-56-9

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N,N-Dibutyl-N-methylbutan-1-aminium heptadecafluorooctane-1-sulfonate (PFOS-N(C_4H_9)$_3$(CH_3))	124472-68-0
Iodonium, bis[4-(1,1-dimethylethyl)phenyl]-, salt with perfluoro-1-octanesulfonic acid (1:1)	213740-80-8
Diphenyl(2,4,6-trimethylphenyl)sulfonium perfluoro-1-octanesulfonate	258341-99-0
1-Hexadecylpyridinium perfluoro-1-octanesulfonate	334529-63-4
N,N,N-Triethyldecan-1-aminium heptadecafluorooctane-1-sulfonate	773895-92-4
Tetrabutylphosphonium perfluorooctane sulfonate (PFOS-P (C_4H_9)$_4$))	2185049-59-4
Perfluorooctanesulfonic acid diethylamine salt (PFOS-$C_4H_{11}N$)	2205029-08-7
heptyldimethyl{2-[(2-methylprop-2-enoyl)oxy]ethyl}azanium heptadecafluorooctane-1-sulfonate (PFOS-$C_{15}H_{30}NO_2$)	1203998-97-3
Perfluorooctane sulfonic anhydride (PFOSAN)	423-92-7
Perfluoro-1-octanesulfonyl chloride (PFOS-Cl)	423-60-9
FOSAA, its salts	
Perfluorooctane sulfonamidoacetic Acid (FOSAA)	2806-24-8
N-[(Perfluorooctyl)sulfonyl]glycinate (FOSAA(anion))	909405-47-6
N-[(Perfluorooctyl)sulfonyl]glycine potassium salt (1:1) (FOSAA-K)	75260-69-4
N-[(Perfluorooctyl)sulfonyl]glycine sodium salt (1:1) (FOSAA-Na)	115716-87-5
N-MeFOSAA, its salts	
N-Methylperfluoro-1-octanesulfonamidoacetic Acid (N-MeFOSAA)	2355-31-9
2-(N-Methylperfluorooctanesulfonamido)acetate (N-Me-FOSAA(anion))	909405-48-7
Potassium N-((heptadecafluorooctyl)sulphonyl)-N-methylglycinate (N-Me-FOSAA-K)	70281-93-5
N-EtFOSAA, its salts	
N-Ethylperfluorooctane sulfonamidoacetic Acid (N-EtFOSAA)	2991-50-6
Glycine, N-ethyl-N-[(heptadecafluorooctyl)sulfonyl]-, potassium salt (N-Et-FOSAA-K)	2991-51-7
2-(N-Ethyl-perfluorooctanesulfonamido)acetate (N-Et-FOSAA(anion))	909405-49-8
Ammonium 2-(N-ethylperfluorooctanesulfonamido)acetate (N-Et-FOSAA-NH_4)	2991-52-8
Sodium 2-(N-ethylperfluorooctanesulfonamido)acetate (N-Et-FOSAA-Na)	3871-50-9
PFOSA, its salts	
Perfluorooctane Sulfonamide (PFOSA)	754-91-6
Perfluorooctanesulfonamide lithium salt (1:1) (PFOSA-Li)	76752-79-9
Perfluorooctanesulfonamide Sodium salt (1:1) (PFOSA-Na)	76752-78-8
Perfluorooctanesulfonamide Potassium salt (1:1) (PFOSA-K)	76752-70-0
Perfluorooctanesulfonamide Ammonium salt (1:1) (PFOSA-NH_4)	76752-72-2
Heptadecafluorooctane-1-sulphonamide, compound with triethylamine (1:1) (PFOSA-$C_6H_{15}N$)	76752-82-4
PFOA, its salts & derivatives	
Perfluorooctanoic acid (PFOA)	335-67-1
Sodium perfluorooctanoate (PFOA-Na)	335-95-5
Potassium perfluorooctanoate (PFOA-K)	2395-00-8
Silver perfluorooctanote (PFOA-Ag)	335-93-3
Perfluorooctanoyl fluoride (PFOA-F)	335-66-0
Ammonium pentadecafluorooctanoate (APFO)	3825-26-1
Lithium perfluorooctanoate (PFOA-Li)	17125-58-5
Cobalt perfluorooctanoate (PFOA-Co)	35965-01-6
Cesium perfluorooctanoate (PFOA-Cs)	17125-60-9
Octanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluoro-, chromium(3+) (PFOA-Cr(3+))	68141-02-6

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Pentadecafluorooctanoic acid--piperazine (2/1) (PFOA-NH($C_4H_{10}N$))	423-52-9
Pentadecafluorooctanoate (anion)	45285-51-6
Perfluorooctanoic Anhydride	33496-48-9
N,N,N-Triethylethanaminium perfluorooctanoate	98241-25-9
Perfluorooctanoate N,N,N-Trimethylmethanaminium	32609-65-7
Tetrapropylammonium perfluorooctanoate	277749-00-5
Potassium pentadecafluorooctanoate--water (1/1/2) (PFOA-K(H_2O)$_2$)	98065-31-7
Perfluorooctanoic acid compd. with ethanamine (1:1) (PFOA-C_2H_7N)	1376936-03-6
Pentadecafluorooctanoic acid--pyridine (1/1) (PFOA-C_5H_5N)	95658-47-2
pentadecafluorooctanoic acid- 1-phenylpiperazine(1:1) (PFOA-$C_{10}H_{14}N_2$)	1514-68-7
N,N,N-Trimethyloctan-1-aminium pentadecafluorooctanoate (PFOA-$C_{11}H_{26}N$)	927835-01-6
Pentadecafluorooctanoyl chloride (PFOA-Cl)	335-64-8

Remark:
Test item marked"*" in this report are not included in CNAS Accredited Scope for our laboratory.
Unless otherwise stated, the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule (*w*=0) stated in ILAC-G8:09/2019.

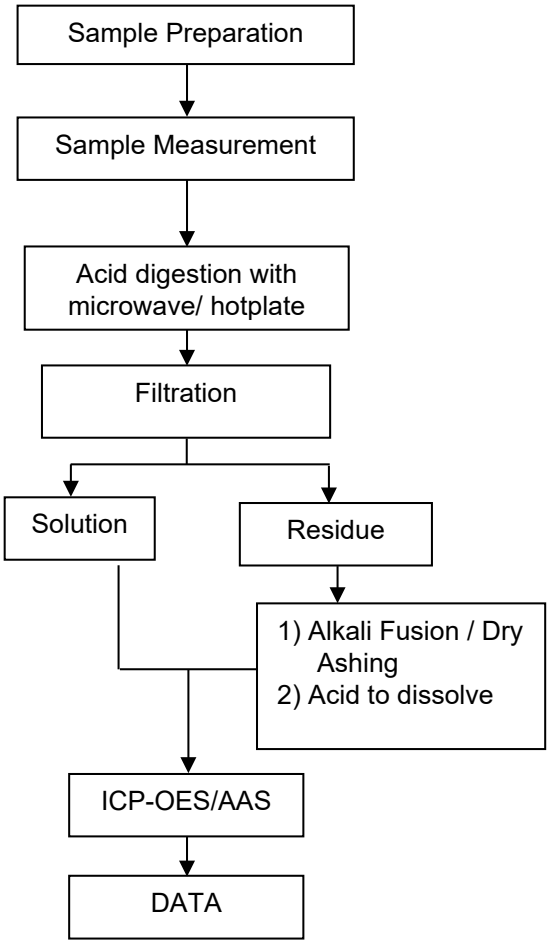
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Elements Testing Flow Chart

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

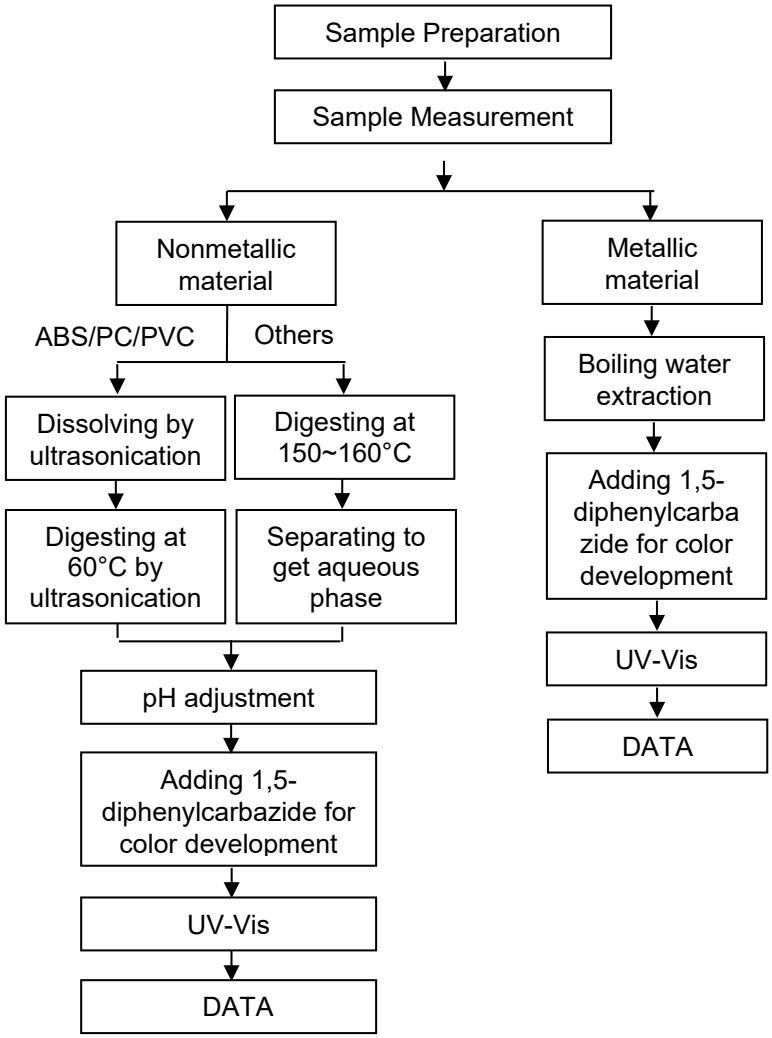


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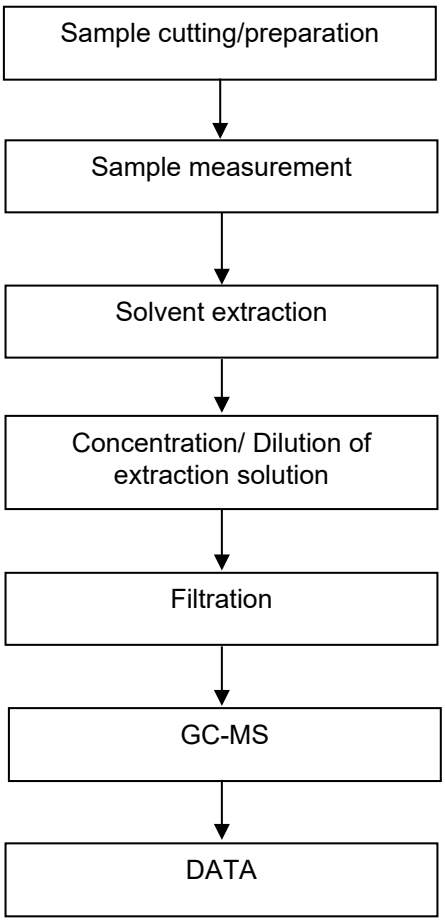
Hexavalent Chromium (Cr(VI)) Testing Flow Chart



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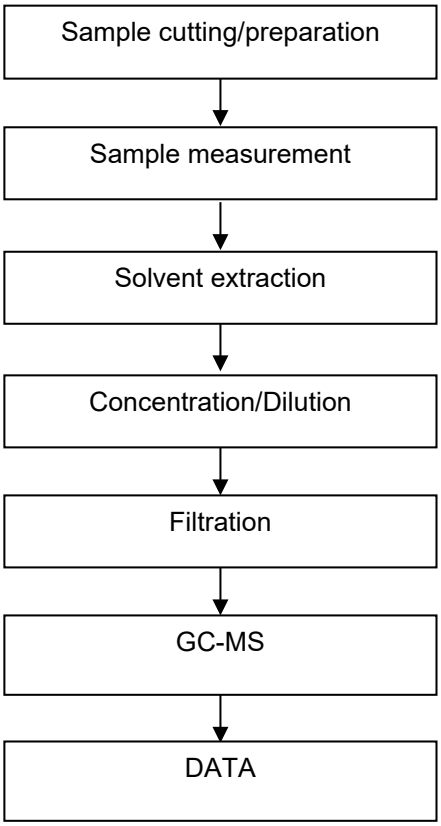
PBB(s)/PBDE(s) Testing Flow Chart



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Phthalates Testing Flow Chart

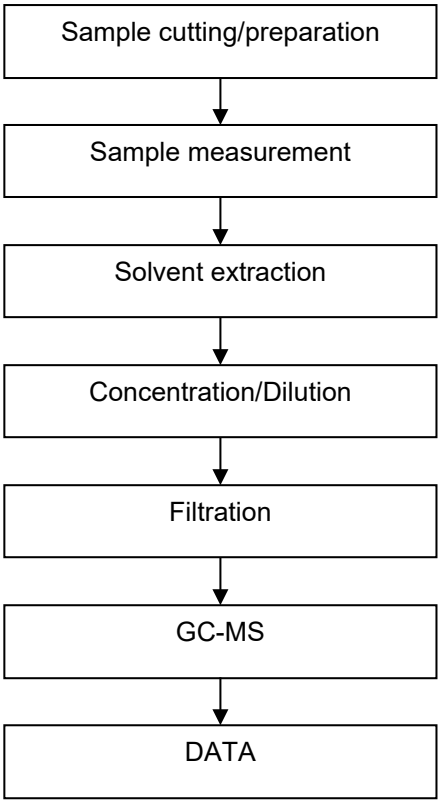


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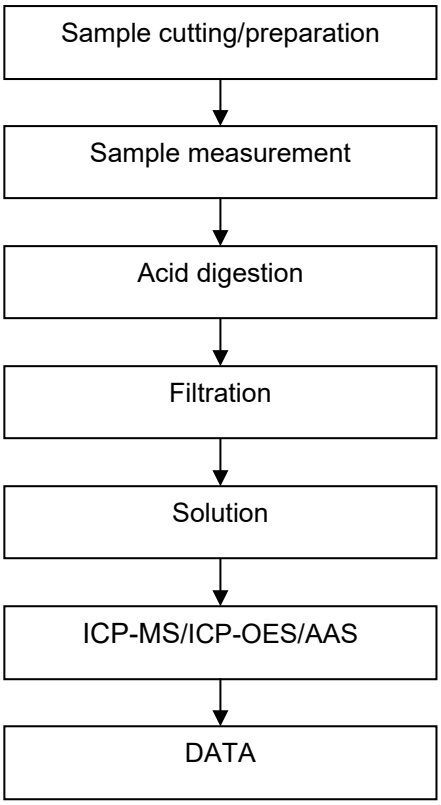
PAHs Testing Flow Chart



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Elements Testing Flow Chart

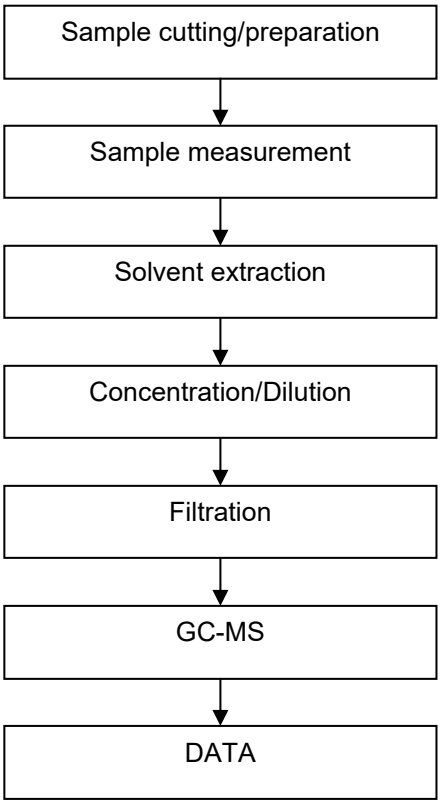


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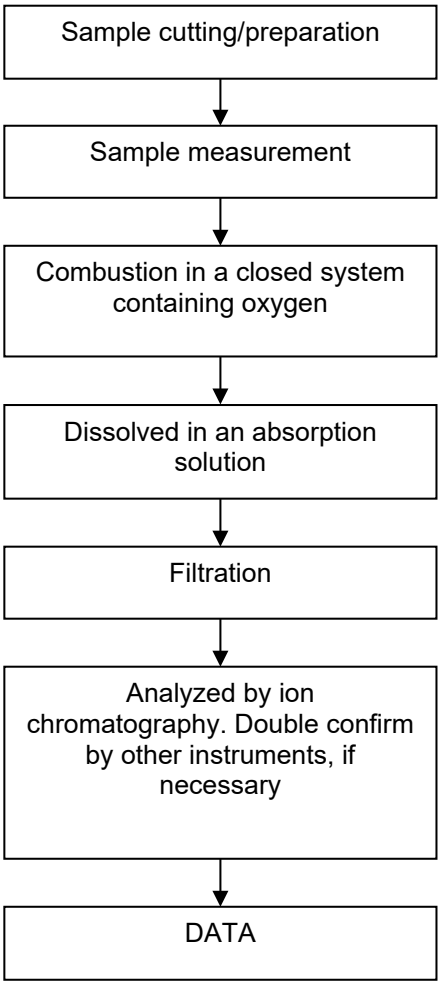
HBCDD Testing Flow Chart



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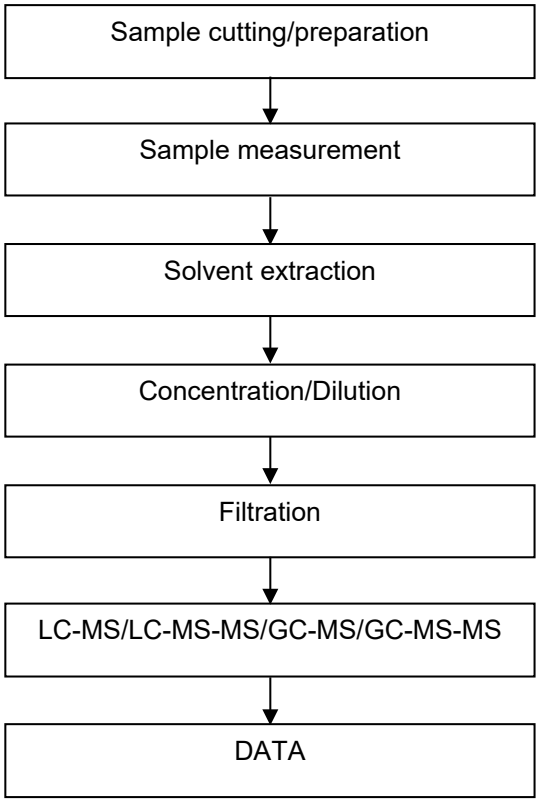
Halogen Testing Flow Chart



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PFASs/ PFOS/PFOA Testing Flow Chart



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检测报告

报告编号: NPS2025070011

委托单位: 广东省鑫诺诚科技有限公司

地　　址: 广东省惠州市龙门县平陵街道晨光村新村 66 号

以下检测样品信息是由委托单位所提供及确认

样品名称: 导电胶带系列

序列型号: XE502、XE601、XE701、XE501、XE801、XE101、XE102、XE103、XE104、XE105、XE106、XE107、XE108、XE109、XE11H、XE201、XE202、XE203、XE204、XE205、XE206、XE207、XE208、XE209、XE21H、XE301、XE302、XE303、XE304、XE305、XE306、XE307、XE308、XE309、XE31H、XE401、XE402 、XE403、XE404、XE405、XE406、XE407、XE408、XE409、XE41H、XE201Q

客户名称: 广东省鑫诺诚科技有限公司

收样日期: 2025 年 07 月 14 日

检测日期: 2025 年 07 月 14 日~2025 年 07 月 15 日

检测项目: 根据客户要求对所提交样品进行欧盟 RoHS 指令中 Pb 铅、Cd 镉 、Hg 汞、Cr(VI)六价铬、PBBs 多溴联苯和 PBDEs 多溴二苯醚、邻苯二甲酸酯类(DEHP 邻苯二甲酸二（2-乙基己基）酯、BBP 邻苯二甲酸丁苄酯、DBP 邻苯二甲酸二丁酯、DIBP 邻苯二甲酸二异丁酯)。

检测标准: 根据客户要求使用 IEC62321 标准进行检测,见后续页。

检测结果: 符合

检测结论: 该样品检测结果符合欧盟 RoHS 指令 2011/65/EU 附录Ⅱ的修正指令（EU）2015/863 的限值要求。

实验室授权签字人

孙敏慧

签发日期:2025 年 07 月 15 日

RoHS
IECRoHS QUERY WWW.IECRoHS.COM
NPS

新标标准技术服务(东莞)有限公司　广东省东莞市长安镇德政东路 127 号
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电话:0769-8701 5678　官方网址:http://www.nps.gs.cn　报告检验证网址:http://yz.nps.gs.cn

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检测报告

RoHS 检测总结

检测项目	检测方法标准	
	化学方法标准	X 射线光谱方法标准
Pb铅	IEC 62321-5:2013	IEC 62321-3-1:2013
Cd镉	IEC 62321-5:2013	IEC 62321-3-1:2013
Hg汞	IEC 62321-4:2013	IEC 62321-3-1:2013
Cr(VI)六价铬	IEC 62321-7-2:2017	IEC 62321-3-1:2013
Br(PBBs多溴联苯和PBDEs多溴二苯醚)	IEC 62321-6:2015	IEC 62321-3-1:2013
DEHP邻苯二甲酸二（2-乙基己基）酯	IEC 62321-8:2017	/
BBP邻苯二甲酸丁苄酯	IEC 62321-8:2017	/
DBP邻苯二甲酸二丁酯	IEC 62321-8:2017	/
DIBP邻苯二甲酸二异丁酯	IEC 62321-8:2017	/

欧洲 RoHS 指令法规管制物质限制

管制物质项目	RoHS 法规指令	法规限制(mg/kg)
Pb铅	欧盟 EC 法规 RoHS 指令 2011/65/EU 附录 II 的修正指令(EU)2015/863	1000
Cd镉		100
Hg汞		1000
Cr(VI)六价铬		1000
PBBs多溴联苯		1000
PBDEs多溴二苯醚		1000
DEHP 邻苯二甲酸二（2-乙基己基）酯		1000
BBP 邻苯二甲酸丁苄酯		1000
DBP 邻苯二甲酸二丁酯		1000
DIBP 邻苯二甲酸二异丁酯		1000

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铅、镉、汞、六价铬检测结果

检测方法:铅、镉、汞参考 IEC 62321-3-1:2013 X 射线光谱方法进行分析，六价铬参考 IEC 62321-7-2:2017 紫外分光法进行分析。

序号	检测项目	检出限 MDL（mg/kg）	欧洲法规限值（mg/kg）	检测结果（mg/kg）
1	铅（Pb）	30	1000	N.D.
2	镉（Cd）	10	100	N.D.
3	汞（Hg）	30	1000	N.D.
4	六价铬(Cr^{6+}）	8	1000	N.D.

说明:

“LOD”=检出限

“N.D.”=未检出（<MDL）

“MDL”=方法检出限

“B.L.”=有检出但低于限值

1mg/kg=1ppm=0.0001%

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总溴 Br(PBBs 多溴联苯+PBDEs 多溴二苯醚)检测结果

检测方法:参考 IEC 62321-3-1:2013 X 射线光谱方法进行分析。

序号	检测项目		检出限 MDL（mg/kg）	欧洲法规限值（mg/kg）	检测结果（mg/kg）
	总溴 Br(多溴联苯和多溴二苯醚)				
5	多溴联苯 PBBs	一溴联苯	50	1000	N.D.
		二溴联苯			
		三溴联苯			
		四溴联苯			
		五溴联苯			
		六溴联苯			
		七溴联苯			
		八溴联苯			
		九溴联苯			
		十溴联苯			
6	多溴二苯醚 PBDEs	一溴二苯醚	50	1000	N.D.
		二溴二苯醚			
		三溴二苯醚			
		四溴二苯醚			
		五溴二苯醚			
		六溴二苯醚			
		七溴二苯醚			
		八溴二苯醚			
		九溴二苯醚			
		十溴二苯醚			

说明:

“LOD”=检出限
“N.D.”=未检出（<MDL）
“MDL”=方法检出限
“B.L.”=有检出但低于限值
“/”=无需测试
“N/A.”=不适用(金属材质无需检测)
1mg/kg=1ppm=0.0001%

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邻苯检测结果

检测方法:参考 IEC 62321-8:2017 采用 GC-MS 进行分析。

序号	检测项目	检出限 MDL（mg/kg）	欧洲法规限值（mg/kg）	检测结果（mg/kg）
7	邻苯二甲酸酯二丁酯（DBP）	30	1000	N.D.
8	邻苯二甲酸苯基丁酯（BBP）	30	1000	N.D.
9	邻苯二甲酸二(2-乙基己基)酯(DEHP)	30	1000	N.D.
10	邻苯二甲酸二异丁酯（DIBP）	30	1000	N.D.

说明:

“LOD”=检出限
“N.D.”=未检出（<MDL）
“MDL”=方法检出限
“B.L.”=有检出但低于限值
“/”=无需测试
“N/A.”=不适用(金属材质无需检测)
1mg/kg=1ppm=0.0001%

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检测依据

光谱 XRF 筛选 Pb 铅、Cd 镉、Hg 汞、Cr 总铬和 Br 总溴。

1. 对于限用物质是 PBBs 和 PBDEs，其结果显示的是总 Br 含量；限用物质是 Cr(VI)，其结果显示的是总 Cr 含量。

2. XRF 所得的测试结果只作为初步筛选，如果 XRF 结果超出 IEC 62321-3-1:2013 所规定不同基体材料中以 mg/kg 表示的筛选元素限值，我们建议客户用精确的化学测试方法测试样品，如用 ICP-AES 或 AAS 测试 Cd，Pb，Hg；用 UV-Vis 测试 Cr(VI)；用 GC-MS 测试 PBBs 和 PBDEs(单位：mg/kg)。

不同基体材料中以 mg/kg 表示的筛选元素限值

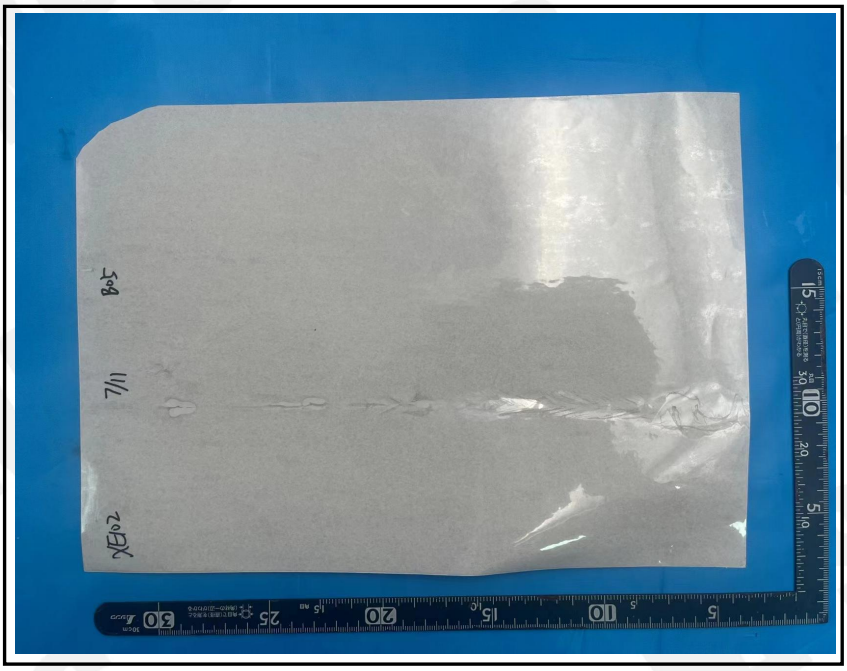
元素	聚合物	金属	复合材料
Pb 铅	BL≤ (700 -3σ) < X < (1300 +3σ)≤OL	BL≤ (700 -3σ) < X < (1300 +3σ)≤OL	BL≤ (500 -3σ) < X < (1500 +3σ)≤OL
Cd 镉	BL ≤(70 -3σ)< X <(130+3σ)≤OL	BL ≤(70 -3σ) < X < (70 +3σ)≤OL	LOD < X < (150 +3σ) ≤OL
Hg 汞	BL≤ (700 -3σ) < X < (1300 +3σ)≤OL	BL≤ (700 -3σ) < X < (1300 +3σ)≤OL	BL≤ (500 -3σ) < X < (1500 +3σ)≤OL
Cr 总铬	BL ≤ (700-3σ)< X	BL ≤ (700-3σ)< X	BL ≤ (500-3σ)< X
Br 总溴	BL ≤(300-3σ)< X	--	BL ≤(250 -3σ)< X

各类材料 XRF 元素的标准偏差σ

元素	聚合物	金属	复合材料
Pb 铅	30	30	30
Cd 镉	10	10	10
Hg 汞	30	30	30
Cr 总铬	30	30	30
Br 总溴	30	--	30

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本报告是本公司遵循 www.nps.gs.cn 服务通用条款所出具。责任、保障和法律限制在服务通用条款已经给了定义。除非另有说明，此报告结果仅对送检样品负责。本报告未经本公司书面许可，不可部分复制。

检测报告

报告编号：RKEYS250701238R01　　报告日期：2025年07月10日　　第1页/共4页

申 请 商： 广东省鑫诺诚科技有限公司

地　址　： 广东省惠州市龙门县平陵街道晨光村新村 66 号

制 造 商： /

地　址　： /

以下测试样品信息是由申请者所提供及确认：

样品名称： XNC 导电胶系列

样品型号： XE801 母卷, XE201, XE502, XE105, XE403, XE103, XE601, XE701, XE402, XE301, XE401, XE102, XE302, XE202, XE104, XE107, XE101, XE501, XE303, XE207, XE205 XE305, XE405, XE203

收样日期： 2025 年 07 月 01 日

测试日期： 2025 年 07 月 01 日至 2025 年 07 月 04 日

测试要求：

根据客户要求,对样品进行测试。

****

备注：本报告取代 2025 年 07 月 04 日发布的报告号为 RKEYS250701238 的报告成为现行有效报告，原检测报告作废。

授权签字人：

钱亮 / 技术经理

扫码核验

广东立祥检测技术有限公司

地址：广东省东莞市东城街道狮环路 18 号 1 栋
电话：+86-0769-89798319　网址：www.keys-lab.com　邮箱：info@keys-lab.com

报告仅对送检样品的检测结果负责，不对送检样品的来源负责。 本报告不得更改、增加或删除。未经 KEYS 书面批准，不得复制本检测报告的部分内容，并作为广告发布。

检测报告

测试标准与结论：

测试标准	结论
参考 EN 14582:2016，对提交的样品进行卤素：氟(F)，氯(Cl)，溴(Br)，碘(I) 测试。	合格

广东立祥检测技术有限公司

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检测报告

测试内容

测试项目	测试方法	仪器设备
卤素：氟(F)，氯(Cl)，溴(Br)，碘(I)	EN 14582:2016	IC

测试结果：

测试项目	单位	MDL	限值	测试结果
				1
氟(F)	mg/kg	50	/	N.D.
氯(Cl)	mg/kg	50	900	114
溴(Br)	mg/kg	50	900	N.D.
碘(I)	mg/kg	50	/	N.D.
氯(Cl)+溴(Br)	mg/kg	/	1500	114
结论				合格

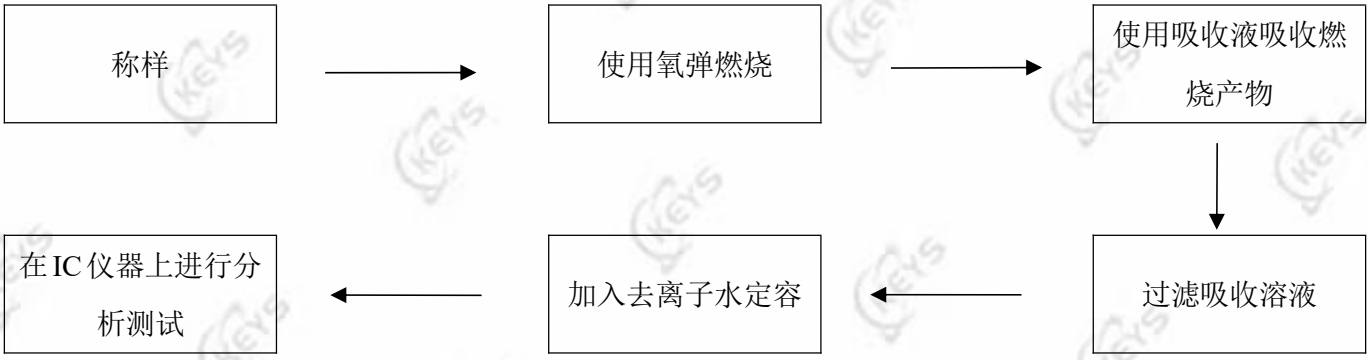
备注： 1. mg/kg= ppm=百万分之一

2. N.D.= 未检出(<MDL)

3. MDL = 方法检出限

测试流程：

卤素含量的测试过程：



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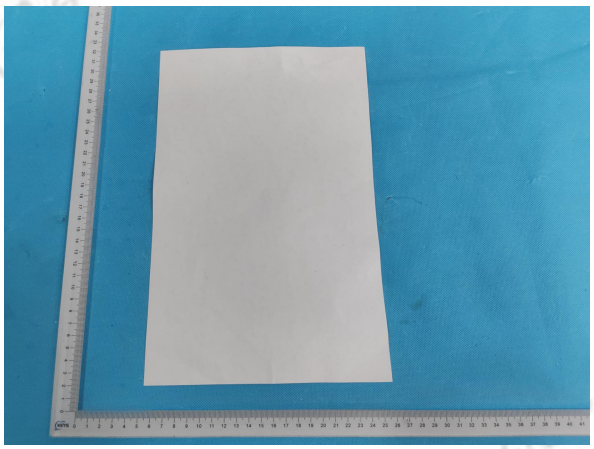
检测报告

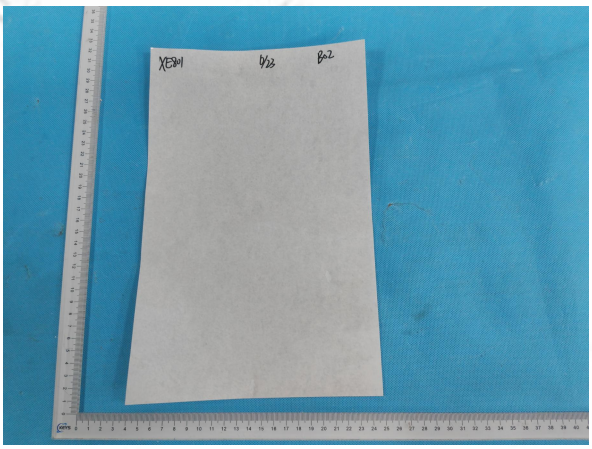
报告编号：RKEYS250701238R01　　报告日期：2025年07月10日　　第4页/共4页

样品描述：

编号	描述
1	白色塑料片

样品图片：





*** 报 告 完 ***

广东立祥检测技术有限公司

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物质安全资料表（MSDS）

PU

1. 制品以及公司资讯

公司名称：中国：常州永丰泡棉制造有限公司，TEL：86－512－66571828
地址：苏江苏省常州市天宁区三河口朝阳路
担当部门：品质保证室

2. 组成.成分资讯

1	二苯亚甲基二异氰酸酯（101-68-8）	53%	
2	Polyether polyols 聚醚多元醇（9003-11-6）	20%	
3	Nonaethylene glycol monododecyl ethe 聚醚醇 （3055-99-0）	25%	
4	Silicon oil 硅油（63148-62-9）	1.50%	
5	Water 水（7732-18-5）	0.50%	

3.危险有害性之注意事项

重要的危险有害性：无表面危害性
物理以及化学的危害性：有引燃之危险性
分类的名称（日本方式的分类基准）以密度分类

4．紧急处置　　不同暴露途径之急救方法：

皮肤接触：直接以洗剂，和大量的清水冲洗，假如皮肤产生炎症，应立即送医院就诊，将被污染的衣物脱下，务必要洗净时才可再穿上
眼睛接触：直接以大量清水洗净 15 分钟后，送医就诊
食　　入：给患者喝水以稀释之，必要时送医处置

5．来火措施：

灭火剂：泡沫灭火剂，二氧化碳灭火剂，在火源及周围适当喷洒
火灾时之危害性：本产品不会自然燃烧，但是在加热后会产瓦斯气体，此时便燃烧，而产生有刺激性的气体
特殊灭火方式：在灭火过程中，非相关灭火人员应往上风处疏之

6．泄露时之处置

对于人体应注意事项：若在不可能使用时，以焚烧或掩埋方式作废弃物处理
对于环境应注意事项：切勿任意丢弃在河道，以避免阻塞河道
除去方法：适当用扫除用具清理后，用焚烧处理方式处理之

7．使用以及储存应注意事项

使　用：注意事项：表面有静电，需带手套，不能与有机物混合
储　存：适当的保管条件：严禁烟火，避免湿气高或阳光直接照射之场所，如有开封后要长时间放置时一定要做适当的再捆包

安全的包装材料：要选择不会淋雨及材料黑色材料

8．暴露防止以及保护措施

设备对策：要在通风良好的室内作业之，而且在作业场所内务必要附设洗手，洗脸设备
管理制度：无特别规定，在正常的作业状态下，是不可能产生粉尘现象，但是据推算在过程当中，会有少量的纤维屑
防护器具：包含呼吸器及手部的保护器具
在加工过程中要戴手套以保护皮肤

9．物理以及化学特性

物理的状态	
形状	：片状的固体
色	：不定
臭味	：无臭味
熔点	：200 摄氏度
溶解性	：不溶于水

10．安定性及反应性

安定性：通常的使用状能及适当的储存环境之下是非常的安定的，颜色会变黄
反应性：对于水及空气中常温之下安定
其　他：约 200 摄氏度以上就开始产生热分解

11．危害性：　　急毒性：　无　　对局部影响：　无

12.对于环境的影响：本产品对于水及在空气中都非常安定

13．废弃时要注意事项

本产品非属危险的“危险废弃物”，所以在一般政府许可的焚烧处及掩埋处都可以作处理

14.运送资料

国际送送规定：N.A.
国内运送规定：N.A.
特殊运送方法及注意事项：N.A.

15．适用的法令

美国加州防火标准，SGS
日本化学　物质管理促进办法：第一种指定化学物质　第 232 号　镍及其他化学物
日本劳动 安全卫生法通知对象物第 417 号　　镍及其他化合物

16．关于其他方面资讯

注意：

上述所记载内容是依据至日前为止所能收集到情报编整而成。其含量及物理化学的性质危险性。有害性等有关事项未及充分有可能发生。
还有注意事项栏内是针对正常的使用状态之下而言，若有非正规的使用时请针对当场实际状况自行作安全上的防护措施。

昆山帝晖电子科技有限公司
Kunshan Dihui Electronic Technology Co.,Ltd

物质安全资料表/Material Safety Data Sheet

产品名称 Product name：	0.11T 灰色热熔布 0.11T gray hot melt cloth	产品编号 Product ID	DH04-18-021
文件编号 File NO	GC-WI-02-004.A	生效日期 Effective date	2022.8.8
编写人 Writer	张静 Zhang jing	核准 Authorizer	朱雨婷 Zhu Yu Ting

1, 公司资料/Company Information:

昆山帝晖电子科技有限公司

Kunshan Dihui Electronic Technology Co.,Ltd

TEL:0512-55129800　　0512-55387519

FAX : 0512-55387529

ADD:江苏省昆山市周市镇荷花浜路 66 号

66# hehuabang Road Zhoushi Town Kunshan City Jiangshu Province China

2.成分辨识信息（Composition，Information on Ingredients）

成分名称 Component name	主要化学成分 Main chemical composition	CAS.NO	成分百分比 Percentage of composition
导电布 Conductive cloth	PET	25038-59-9	42%
	CU	7440-50-8	12%
	NI	7440-02-0	9%
热熔胶膜 Hot melt adhesive	TPU	9009-54-5	37%

3,危害辨识资料（Hazards Identification）

最重要危害效应 important damaging effect	健康危害效应 Health hazard and Reactions	长时间接触可能会引起过敏 Prolonged contact may be allergic
	环境影响 Environmental Impact	N.A.
	物理性及化学性危害 Physical and chemical hazards	N.A.
	特殊危害 Specific Hazards	N.A.
主要症状 Cardinal Symptoms		N.A.
危害物质分类 Hazard Classification		N.A.

4、急救措施(First Aid Measures)

不同暴露途径的急救方法 First Aid Measures Differences Kinds of Exposures)	吸入 (Inhalation)
	食入 (Ingestion)
	皮肤接触 (Skin Contact)
	眼睛接触(Eye Contact)
最重要症状及危害效应 (Most Important Symptoms and Hazard Reactions)	
对急救人员的防护 (Protection to First-Aid Attendants)	
对医师的提示(Suggestions to Doctors)	
不同暴露途径的急救方法 (First Aid Measures Differences Kinds of Exposures)	吸入 (Inhalation)
	食入 (Ingestion)
	皮肤接触 (Skin Contact)

5. 消防措施(Fire-fighting Measures)

适用灭火剂 Suitable Extinguishing Media	泡沫、干粉、水、二氧化碳 Froth, dry powder, water, CO2
灭火时可能遭遇的特殊危害 Special Hazards in Fire	N.A.
消防人员的特殊防护设备 Required Special Protective Equipment for Fire-Fighters	一般消防防护设备 General fire protection equipment

6、泄露应急处理 Accidental Release Measures)

产品的物质形态为固体，不适用此项。 The material form of the product is solid，Not applicable

7、操作处置与储存(Handling And Storage)

处置 Handling	勿使产品滚动、跌落，搬运时应使用适当的推车或两人抬运 Do not make the product roll, drop, handling should be used when the appropriate cart or two people carry
	勿使湿物、蒸气、强氧化剂、阳光等直接接触物品 Do not make wet things, steam, strong oxidant, sunlight and other direct contact with the goods
储存 Storage	密封包装存放 Sealed package storage
	储存于 23±2℃，65±5%RH 的室内环境 Stored in the 23±2℃，65±5%R of the indoor environment.
	远离火源、化学危害品的独立空间 Keep away from fire and chemical hazards
	保存期限为 12 个月 12 months

8、接触控制、个体防护 exposure controls、personal protection

产品的物质形态为固体，不适用此项 The material form of the product is solid，Not applicable。

9、物理化特性(physical properties)

物质状态 state of substance	固体 Solids	溶解性 Solubility	不溶于水 (Insoluble in water)
外观 Appearance	布状 Cloth	分解温度 Decomposing Temperature	N.A.
颜色 Color	灰色 gray	闪火点 Flash Point	N.A.
PH 值 PH Value	无 None	自然温度 Self-Igniting Temperature	N.A.
气味 Odor	无 None	扩张极限 Explosion Limits：Max/Min	N.A.

10、安全性和反应性/stability and reactivity

安定性 Stability	安定 Stable
特殊状况下可能的危害反应 Hazard Reaction Under Special Conditions	长时间接触可能引起过敏 Prolonged exposure may cause anaphylaxis
应避免之状况 Conditions to Avoid	N.A.
应避免之物质 Materials to Avoid	酸、碱物质及尖锐器具. Acids, alkalis and sharp objects
危害分解物 Hazardous Decomposition Products	N.A.

11、毒理学资料 Toxicological Information

产品的物质形态为固体，不适用此项。 The material form of the product is solid，Not applicable。

12、生态学资料 Ecological Information

可能的环境影响 Possible Environment Impact	N.A.

13、废弃处置(Disposal)

品废弃处理 Product Discard Disposal Method	依一般废弃物处理即可 usual Waste
包废弃处理 Packing Discard Disposal Method	依一般废弃物处理即可 usual Waste

14、运输信息(transport information)

国际运送规定 International Transportation Regulations	N.A.
国内运送规定 Domestic regulations for transport	N.A.
特殊运送方法及注意事项 Special Transportation Method and precautions	无/None.

15、法规信息(regulatory information）

适用法规 Applicable regulations	中国劳动安全卫生法 China Labor safety and health law

16、其他信息(other information)

本说明书仅供参考，我们已尽里收集本产品相关的数据和资讯，但我们仍不能对其全面性和准确性做任何担保和承诺。请各方充分考虑风险，根据法律法规和相关技术资料使用本产品。
This manual is for reference only，We have tried our best to collect data and information related to this product，However, we still cannot make any guarantee and commitment to its comprehensiveness and accuracy。Please fully consider the risks，Use this product according to laws, regulations and relevant technical data。

物质安全资料表

Material Safety Data Sheet

文件编号 Document No.：　　版本 VER.：4.0

一、产品与厂商资料 Product and company identification

物品名称 Product Name：導電無基材膠帶
物品编号 Product No.：
制造商名称 Manufacturer's Name: 深圳市皓嘉科技有限公司
制造商地址 Manufacturer's Address:深圳市龙华新区观澜街道田茜路 3 号隆丰工业园 3 栋 2 楼
紧急联络电话/传真 emergency Tel/Fax：0755-23148166/29377930

二、成份资料 Product Component

主要成份 Mostly Component:.			
主要成分之中英文名 China English Name of Bases	化學式	主要成分/占总成份（Bases/Total）%	化學文摘社登記碼 CAS .NO
镍粉 Nickel	Ni	10	7440-02-0
丙烯酸 ethyl acrylate	CH2=CHCOOH	90	31069-81-5

三、危害辨识资料 Hazards identification

最重重危害效应 Furthest layer upon layer domino effect	無
主要症状 Mostly symptom： 無	
物品危害分类 Class name of hazardous chemicals： 無	

四、急救措施 First aid measures

不同暴露途径之急救方法 First aid means of differ betrayal track： ◎ 吸入 Inhalation：無 ◎ 皮肤接触 Skin contact：無 ◎眼睛接触 Eye contact：無 ◎食入 Ingestion：無
最重要症状及危害效应 above all symptom and hurt domino effect：無
对急救人员之防护 Defend man of first aid：無
对医师之提示 Doctor clew：無

五、灭火措施 Fire fighting measures

灭火方法 Extinguishing media：化學干粉、二氧化碳、泡沫
灭火时可能遭遇之特殊危害 Special hurt of extinguishing：無
特殊灭火程序 Special extinguishing process：　1.無適當防護具人員不可進入火場,滅火人員需要與火保持安全距離 2.小心使用水溶液滅火劑,避免蒸氣爆炸.以水霧冷卻
消防人员之特殊防护设备 Special defend equipment of firemen：無

六、泄漏处理方法 Giveaway disposal method

个人应注意事项 Personal notice proceeding: 無
环境注意事项 Measures for environmental effect：無
清理方式 Clear mode：無

七、安全处置与储存方法 Safety Handling and Storage

处置 Handling：用包裝袋包裝
储存 Storage： 25~35℃

八、暴露预防措施 Exposure control and personal protection

工程控制 Engineering measures：在正常使用下無需預先規劃的特殊空調			
控制参数 Control parameter：無			
Exposure limit	Total dust:		

	Respiratory dust:		
Engineering measures			

个人防护设备 Personal protective equipment：

- ◎ 呼吸防护 Respiratory protection:
- ◎ ◎手部防护 Hand protection：
- ◎ ◎眼睛防护 Eye protection：

◎皮肤及身体防护 Skin and Body protection :

卫生措施 Sanitation protection：

九、物理及化学性质 Physical and Chemical Properties:

物质状态 Matter state： 固體	形状 Figure： 卷状
颜色 Color：黑色	气味 Odor： 無味
PH：---	沸点 Boiling point： ----
溶点 Melting point：	蒸发 Vaporize:
VOC:	黏度 Adhere:

十、安定性与反应性 Stability and reactivity

安定性 Stability：安定
特殊状况下可能之危害反应 Hazardous reactivity of special status：無
应避免之状况 Status of abstain： 受熱明火
应避免之物质 Substance of： 強酸、強鹼
危害分解物 Hazardous polymerization: 一氧化碳及其他有毒物體

十一、毒性资料 Toxicological information:

急毒性 Acute toxicity：無 吸入 Inhalation: 無 眼睛接触 Eye contact: 無 食入 Agree with food:無
局部效应 Part domino effect：無

致敏感性 Carcinogenic effects：無
慢毒性或长期毒性 Slow toxicity or long time toxicity：無
特殊效应 Specified domino effect：無

十二、生态资料: Zoology information

可能之环境影响 Entironment affect：無

十三、废弃处置方法 Disposal consideration

废弃处置方式 Waste disposal mode：於許可地點掩埋

十四、运送资料 Transport information

国际运送规定(IATA): -----
联合国编号 U.N. No.：-----
国内运送规定 Transport ordain of nation：-----
特殊运送方式及注意事项 Any other special requirements：-----

十五、法规资料 Regulatory information

适用法规 Apply law： 勞工安全衛生設施規則,危險物及有害物通識規則,道路交通安全規則

十六、其它资料 Other information

参考文献 Consult literature		
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十七、修改履历 Record of perfect

物质安全资料表

Material Safety Data Sheet

修改履历 Record of perfect	版　本 VER.	修 改 日 期 date	修改内容 Perfect
	2.0	2019/03/25	審核人更改
	3.0	2019/03/30	審核人更改
	4.0	2019/04/12	成份內容修正