检测报告

编号：CANEC26009815202　　**日期：**2026 年 05 月 09 日　　

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號匯達大厦二十三樓

样品名称：　FR-4.1

型号：　KB-6167GLD

客户参考信息：　KB-3200G

以上样品及信息由客户提供。

SGS 工作编号：　GZP26-010740

样品接收时间：　2026 年 04 月 21 日

检测周期：　2026 年 04 月 21 日 ~ 2026 年 04 月 29 日

检测要求：　根据客户要求检测

检测方法：　见后续页。

检测结果：　见后续页。

检测要求	结论
欧盟 RoHS 指令 2011/65/EU 附录 II 的修正指令(EU) 2015/863-铅、汞、镉、六价铬、多溴联苯 (PBB)、多溴二苯醚 (PBDE)、邻苯二甲酸二(2-乙基己基)酯 (DEHP)、邻苯二甲酸丁苄酯 (BBP)、邻苯二甲酸二丁酯 (DBP)和邻苯二甲酸二异丁酯 (DIBP)	符合
AfPS GS 2019:01 PAK-多环芳香烃 (PAHs)	见检测结果
四溴双酚 A (TBBP-A)	见检测结果
中链氯化石蜡(C14-C17) (MCCPs)	见检测结果
苯并三唑类紫外吸收剂	见检测结果
双酚-A	见检测结果
氯化石蜡	见检测结果

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授权签名

陈江梨

Allie Chen 陈江梨
批准签署人

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No.198, Kezhu Road, Science City, Economic & Technological Development Area, Guangzhou, Guangdong, China 510663
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t (86-20) 82155555　www.sgsgroup.com.cn
t (86-20) 82155555　sgs.china@sgs.com

检测要求	结论
富马酸二甲酯 (DMFu)	见检测结果
甲醛	见检测结果
六溴环十二烷(HBCDD)	见检测结果
邻苯二甲酸酯	见检测结果
聚氯乙烯 (PVC)	见检测结果
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
卤素	见检测结果
红磷	见检测结果
元素分析	见检测结果

检测结果：

检测部件外观描述:

样品序号	样品编号	SGS 样品 ID	样品描述
SN1	A1	CAN26-0098152-0001.C001	双面覆铜板

备注：

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

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

检测方法： 参考 IEC 62321-4:2013+AMD1:2017，IEC 62321-5:2013，IEC 62321-7-2:2017 和 IEC 62321-12:2023，采用 ICP-OES/AAS，UV-Vis 和 GC-MS 进行分析。

检测项目	限值	单位	MDL	A1
铅 (Pb)	1000	mg/kg	2	9
汞 (Hg)	1000	mg/kg	2	ND
镉 (Cd)	100	mg/kg	2	ND
六价铬 (Cr(VI))	1000	mg/kg	8	ND
多溴联苯之和 (PBB)	1000	mg/kg	-	ND
一溴联苯 (MonoBB)	-	mg/kg	25	ND
二溴联苯 (DiBB)	-	mg/kg	25	ND

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No.198, Kezhu Road, Science City, Economic & Technological Development Area, Guangzhou, Guangdong, China 510663
中国·广东·广州高新技术产业开发区科学城科珠路198号 邮编: 510663
t (86-20) 82155555 www.sgsgroup.com.cn
t (86-20) 82155555 sgs.china@sgs.com

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检测项目	限值	单位	MDL	A1
三溴联苯 (TriBB)	-	mg/kg	25	ND
四溴联苯 (TetraBB)	-	mg/kg	25	ND
五溴联苯 (PentaBB)	-	mg/kg	25	ND
六溴联苯 (HexaBB)	-	mg/kg	25	ND
七溴联苯 (HeptaBB)	-	mg/kg	25	ND
八溴联苯 (OctaBB)	-	mg/kg	25	ND
九溴联苯 (NonaBB)	-	mg/kg	25	ND
十溴联苯 (DecaBB)	-	mg/kg	25	ND
多溴二苯醚之和 (PBDE)	1000	mg/kg	-	ND
一溴二苯醚 (MonoBDE)	-	mg/kg	25	ND
二溴二苯醚 (DiBDE)	-	mg/kg	25	ND
三溴二苯醚 (TriBDE)	-	mg/kg	25	ND
四溴二苯醚 (TetraBDE)	-	mg/kg	25	ND
五溴二苯醚 (PentaBDE)	-	mg/kg	25	ND
六溴二苯醚 (HexaBDE)	-	mg/kg	25	ND
七溴二苯醚 (HeptaBDE)	-	mg/kg	25	ND
八溴二苯醚 (OctaBDE)	-	mg/kg	25	ND
九溴二苯醚 (NonaBDE)	-	mg/kg	25	ND
十溴二苯醚 (DecaBDE)	-	mg/kg	25	ND
邻苯二甲酸二(2-乙基己基)酯 (DEHP)	1000	mg/kg	50	ND
邻苯二甲酸丁苄酯 (BBP)	1000	mg/kg	50	ND
邻苯二甲酸二丁酯 (DBP)	1000	mg/kg	50	ND
邻苯二甲酸二异丁酯 (DIBP)	1000	mg/kg	50	ND

备注：
(1) 最大允许极限值引用自 RoHS 指令(EU) 2015/863。
(2) IEC 62321 系列等同于 EN 62321 系列。
(3) 2021 年 7 月 22 号开始，DEHP， BBP， DBP 和 DIBP 的限制适用于医疗器械，包括体外医疗器械，监控仪表，包括工业监测和控制仪器。

AfPS GS 2019:01 PAK-多环芳香烃 (PAHs)

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

检测项目	CAS No.	单位	MDL	A1
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
苯并(a)蒽 (BaA)	56-55-3	mg/kg	0.1	ND
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
䓛 (CHR)	218-01-9	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)苝(二萘嵌苯) (BPE)	191-24-2	mg/kg	0.1	ND

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检测项目	CAS No.	单位	MDL	A1
茚苯(1,2,3-c,d)芘 (IPY)	193-39-5	mg/kg	0.1	ND
菲 (PHE)	85-01-8	mg/kg	0.1	ND
芘 (PYR)	129-00-0	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
4 项多环芳香烃总和[菲 (PHE),芘 (PYR),蒽 (ANT),荧蒽 (FLT)]	-	mg/kg	-	ND
萘 (NAP)	91-20-3	mg/kg	0.1	ND
15 项多环芳香烃总和	-	mg/kg	-	ND
材料分类	-	-	-	-

备注：

AfPS(德国产品安全委员会): 认证对多环芳香烃的要求

参数 单位：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 [a,b] 使用。	不属于第 1 类，设计意图或可预见 [d] 与皮肤长期接触（超过 30 秒）或短期重复接触 [c] 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
䓛 (CHR) ,mg/kg	< 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)苝(二萘嵌苯) (BPE)	< 0.2	< 0.2	< 0.5	< 0.5	< 1
茚苯(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	
15 PAH 之和	<1	< 5	< 10	< 20	< 50

注释:

[a] 儿童是指法定年龄未满 14 周岁的人。

[b] 供儿童使用包括儿童的主动接触或被动接触。

[c] “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)。

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[d] 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。

四溴双酚 A (TBBP-A)

检测方法： 参考 US EPA 3550C: 2007，采用 GC-MS 或 LC-MS 或 LC-MS/MS 进行分析。

检测项目	CAS No.	单位	MDL	A1
四溴双酚 A(TBBP-A)	79-94-7	mg/kg	5	ND

中链氯化石蜡(C14-C17) (MCCPs)

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	A1
中链氯化石蜡(C_{14}-C_{17}) (MCCPs)	85535-85-9 和其它	mg/kg	50	ND

苯并三唑类紫外吸收剂

检测方法： 参考 SGS 内部方法，采用 GC-MS 进行分析。

检测项目	CAS No.	单位	MDL	A1
2-(2'-羟基-3',5'-二叔丁基苯基)苯并三唑(UV-320)	3846-71-7	mg/kg	5	ND
2-(2'-羟基-3'-异丁基-5'-叔丁基苯基)苯并三唑(UV-350)	36437-37-3	mg/kg	5	ND
2-(2'-羟基-3',5'-二叔戊基苯基)苯并三唑(UV-328)	25973-55-1	mg/kg	5	ND
2-(2'-羟基-3',5'-二叔丁基苯基)-5-氯代苯并三唑(UV-327)	3864-99-1	mg/kg	5	ND

双酚-A

检测方法： 参考 US EPA 3550C:2007，采用 HPLC-DAD/MS / LC-MS/MS 进行分析。

检测项目	CAS No.	单位	MDL	A1
双酚-A	80-05-7	mg/kg	1.0	ND

氯化石蜡

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

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检测项目	CAS No.	单位	MDL	A1
C_{10}-C_{13} 氯代烃(短链氯化石蜡)(SCCPs)	85535-84-8	mg/kg	50	ND

富马酸二甲酯 (DMFu)

检测方法： 溶剂萃取，采用 GC-MS 进行分析。

检测项目	CAS No.	单位	MDL	A1
富马酸二甲酯(DMFu)	624-49-7	mg/kg	0.1	ND

甲醛

检测方法： 参考 ISO 14184-1:2011，采用 UV-Vis 进行分析。

检测项目	单位	MDL	A1
甲醛	mg/kg	16	ND

六溴环十二烷(HBCDD)

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

检测项目	CAS No.	单位	MDL	A1
六溴环十二烷 (HBCDD)	134237-50-6 /134237-51-7 /134237-52-8 /25637-99-4 /3194-55-6	mg/kg	20	ND

邻苯二甲酸酯

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

检测项目	CAS No.	单位	MDL	A1
邻苯二甲酸二丁酯 (DBP)	84-74-2	mg/kg	50	ND
邻苯二甲酸二(2-乙基己基)酯(DEHP)	117-81-7	mg/kg	50	ND
邻苯二甲酸丁苄酯(BBP)	85-68-7	mg/kg	50	ND
邻苯二甲酸二异壬酯(DINP)	28553-12-0 /68515-48-0	mg/kg	50	ND
邻苯二甲酸二辛酯(DNOP)	117-84-0	mg/kg	50	ND
邻苯二甲酸二异癸酯(DIDP)	26761-40-0 /68515-49-1	mg/kg	50	ND
邻苯二甲酸二异丁酯(DIBP)	84-69-5	mg/kg	50	ND
邻苯二甲酸二(2-甲氧基乙基)酯(DMEP)	117-82-8	mg/kg	50	ND
邻苯二甲酸二正己酯(DnHP)	84-75-3	mg/kg	50	ND
邻苯二甲酸二戊酯 (DPENP/ DnPP)	131-18-0	mg/kg	50	ND

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检测项目	CAS No.	单位	MDL	A1
邻苯二甲酸二苯酯(DPhP)	84-62-8	mg/kg	50	ND
邻苯二甲酸双十一酯(DUDP)	3648-20-2	mg/kg	50	ND
邻苯二甲酸二甲酯(DMP)	131-11-3	mg/kg	50	ND
邻苯二甲酸二乙酯(DEP)	84-66-2	mg/kg	50	ND
邻苯二甲酸二丙酯(DPrP)	131-16-8	mg/kg	50	ND
邻苯二甲酸二环己酯(DCHP)	84-61-7	mg/kg	50	ND
邻苯二甲酸二苯甲酯(DBzP)	523-31-9	mg/kg	50	ND
邻苯二甲酸二壬酯(DNP)	84-76-4	mg/kg	50	ND
邻苯二甲酸二异辛酯(DIOP)	27554-26-3	mg/kg	50	ND
邻苯二甲酸二丙烯酯(DAP)	131-17-9	mg/kg	50	ND
1,2－苯二甲酸癸基辛基酯(nDnOP)	119-07-3	mg/kg	50	ND
邻苯二甲酸二癸酯(DnDP)	84-77-5	mg/kg	50	ND
邻苯二甲酸二异戊酯(DiPP)	605-50-5	mg/kg	50	ND
邻苯二甲酸正戊基异戊基酯(nPiPP)	776297-69-9	mg/kg	50	ND
邻苯二甲酸二（2-丁氧基）乙酯（DBEP）	117-83-9	mg/kg	50	ND
邻苯二甲酸二（4-甲基-2-戊基）酯(BMPP)	146-50-9	mg/kg	50	ND
邻苯二甲酸二（2-乙氧基）乙酯(DEEP)	605-54-9	mg/kg	50	ND
邻苯二甲酸二 C6-C8 支链烷基酯(DIHP)	71888-89-6	mg/kg	50	ND
邻苯二甲酸二正庚酯（DnHpP）	3648-21-3	mg/kg	50	ND
邻苯二酸-二(C7,C9,C11)烷基酯(DHNUP)	68515-42-4	mg/kg	50	ND
邻苯二甲酸二(支链与直链)戊基酯 (DPP)	84777-06-0	mg/kg	50	ND
邻苯二甲酸双十三烷基酯(DTDP)	119-06-2	mg/kg	50	ND
邻苯二甲酸二(支链与直链)己基酯(DHxP)	68515-50-4	mg/kg	50	ND
己二酸二(2-乙基己基)酯(DEHA)	103-23-1	mg/kg	50	ND
对苯二甲酸二(2-乙基己)酯(DOTP)	6422-86-2	mg/kg	50	ND
己二酸二异壬酯(DINA)	33703-08-1	mg/kg	50	ND
邻苯二甲酸二(2-丙基庚)酯(DPHpP)	53306-54-0	mg/kg	50	ND
乙酰柠檬酸三丁酯(ATBC)	77-90-7	mg/kg	50	ND
偏苯三酸三(2-乙基己)酯 (TOTM)	3319-31-1	mg/kg	50	ND

聚氯乙烯 (PVC)

检测方法： 参考 SGS 内部方法，采用 FTIR/HATR 进行分析。

检测项目	A1
聚氯乙烯(PVC)	阴性

备注：
(1) 阴性=未检测到, 阳性= 已检测到。

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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： 参考 US EPA 3550C:2007，采用 GC-MS 进行分析。

检测项目	CAS No.	限值	单位	MDL	A1
十溴二苯醚 (Deca-BDE)	1163-19-5	1000	mg/kg	5	ND
异丙基化磷酸三苯酯 (PIP 3:1)	68937-41-7	1000	mg/kg	5	ND
2,4,6-三叔丁基苯酚 (2,4,6-TTBP)	732-26-3	3000	mg/kg	5	ND
六氯丁二烯 (HCBD)	87-68-3	禁用	mg/kg	5	ND
五氯苯硫酚 (PCTP)	133-49-3	10000	mg/kg	5	ND
结论					**符合**

备注：
(1) 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.
(2) 针对十溴二苯醚 (Deca-BDE)和异丙基化磷酸三苯酯 (PIP 3:1) 的规定于 2025 年 1 月 21 日生效。

实施实验室活动的地点：广东省广州市黄埔区开创大道 1501 号 3 栋 101 房

卤素

检测方法： 参考 EN 14582:2016，采用 IC 进行分析。

检测项目	单位	MDL	A1
氟 (F)	mg/kg	20	1929
氯 (Cl)	mg/kg	50	ND
溴 (Br)	mg/kg	50	ND
碘 (I)	mg/kg	50	ND

红磷

检测方法： SGS 内部方法，采用 PY-GC/MS/ ICP-OES / GC-MS 进行分析。

检测项目	CAS No.	单位	MDL	A1
红磷	7723-14-0	mg/kg	500	ND

元素分析

检测方法： 参考 US EPA 3052:1996，采用 ICP-OES/AAS 进行分析。

检测项目	单位	MDL	A1
砷(As)	mg/kg	10	ND
铍(Be)	mg/kg	5	ND
镍(Ni)	mg/kg	5	ND

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检测项目	单位	MDL	A1
锑(Sb)	mg/kg	10	ND

除非另有说明，参照 ILAC-G8:09/2019，使用简单接受（*w*=0）的二元判定规则进行符合性判定。
除非另有说明，此报告结果仅对检测的样品负责。本报告未经本公司书面许可，不可部分复制。
检测报告仅用于客户科研、教学、内部质量控制、产品研发等目的，仅供内部参考。

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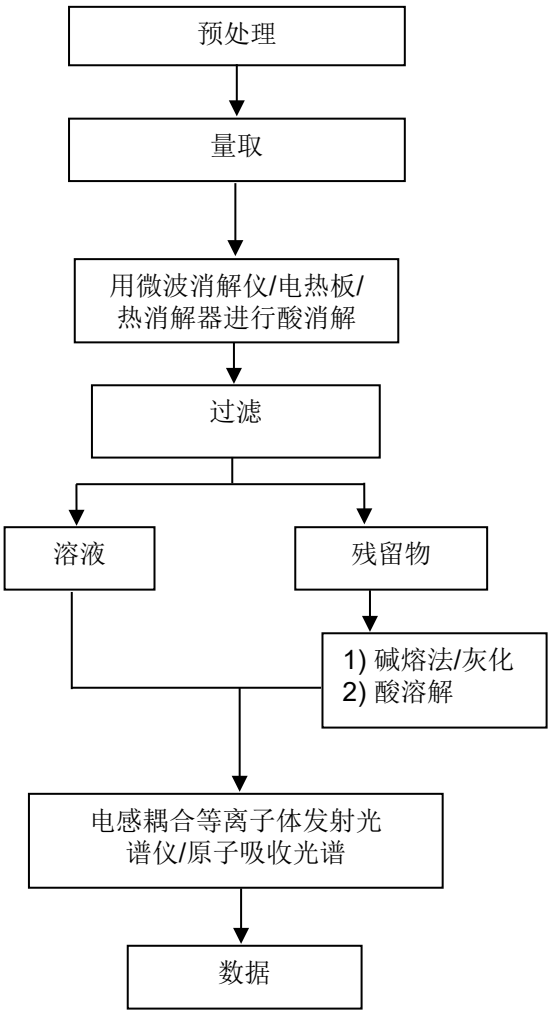
元素检测流程图

样品中的 Pb/Cd/Hg 按照下述流程被完全消解。



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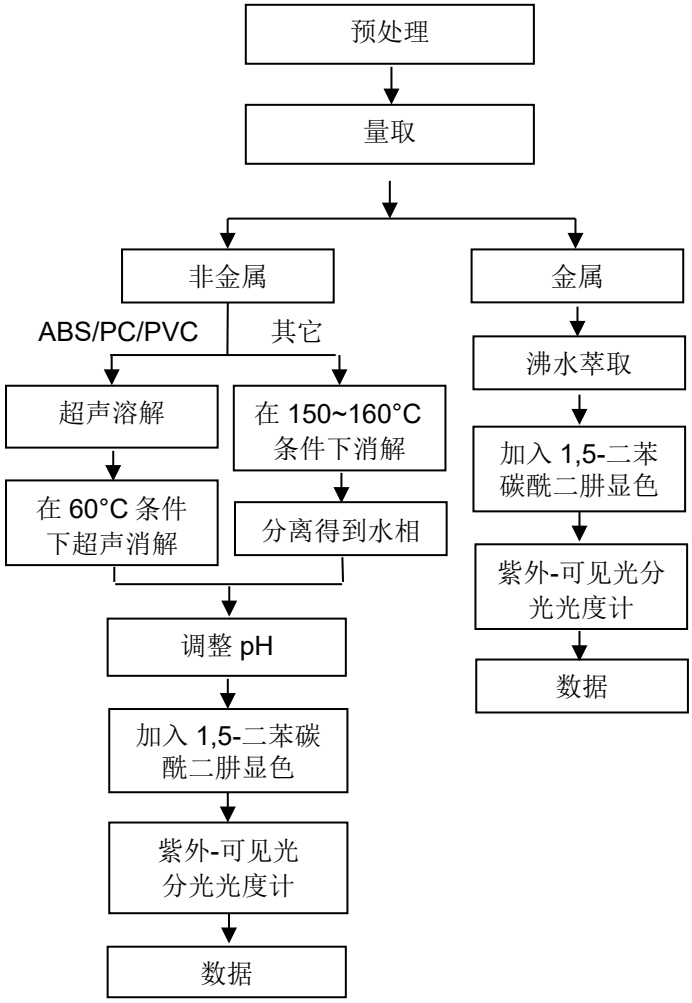
六价铬检测流程图



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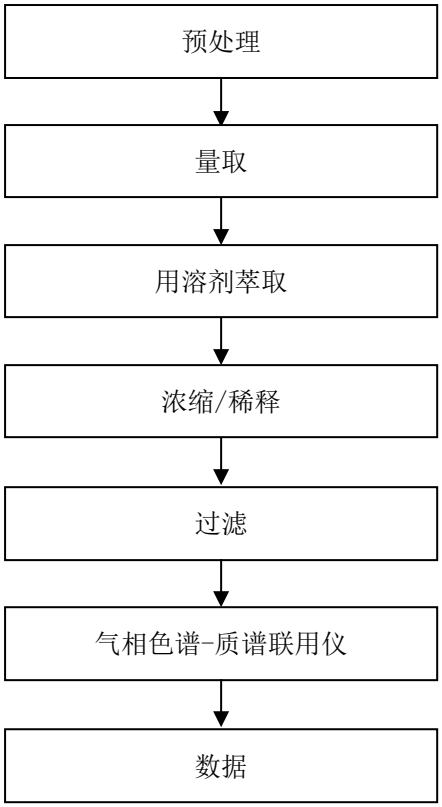
PBB(s)/PBDE(s)/Phthalates 检测流程图



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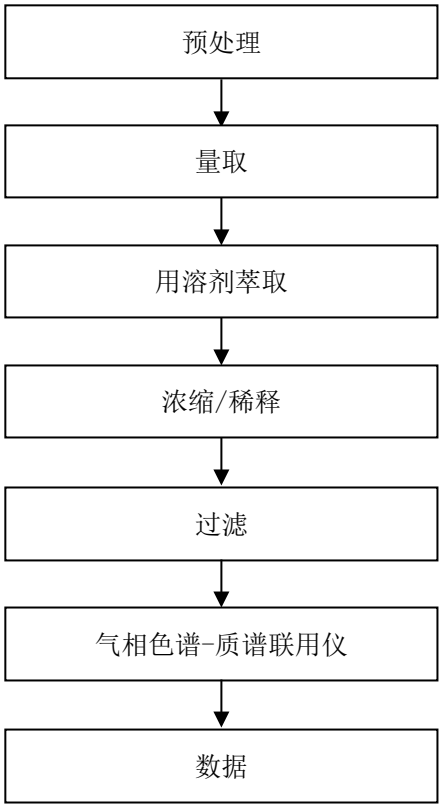
PAHs 检测流程图



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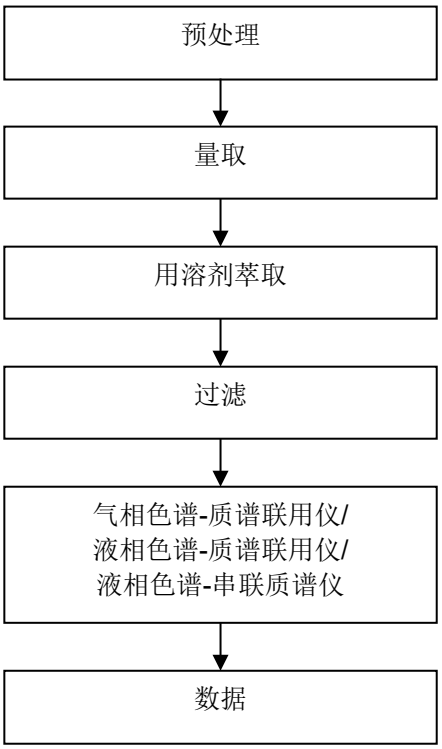
TBBP-A 检测流程图



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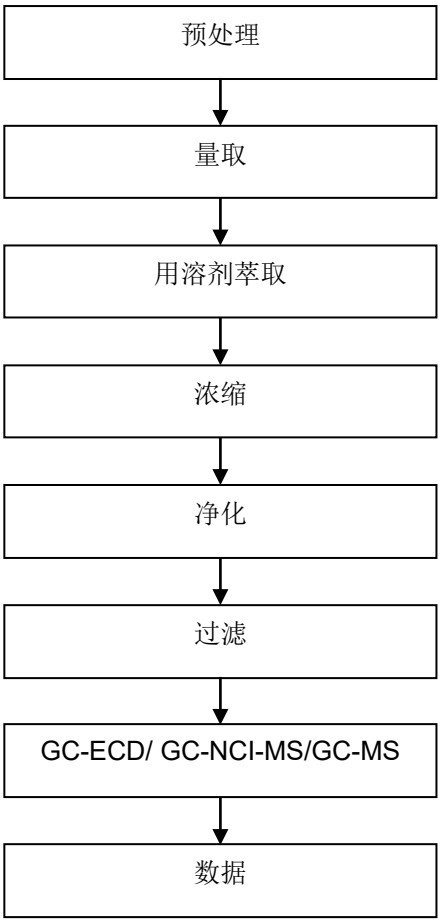
氯化石蜡检测流程图



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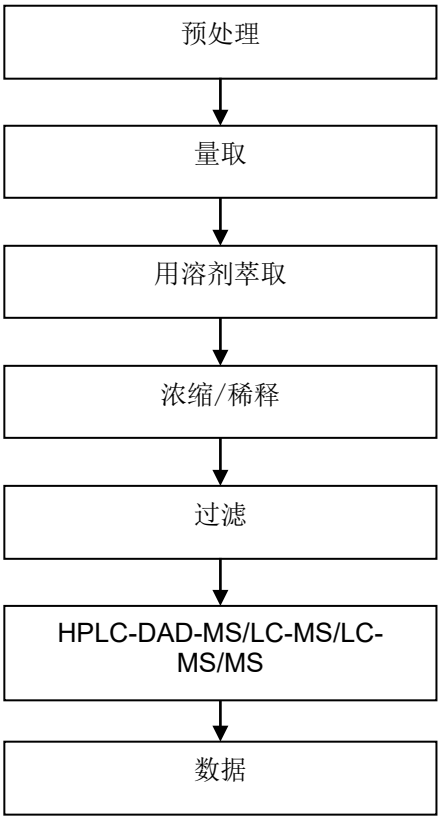
双酚类化合物检测流程图



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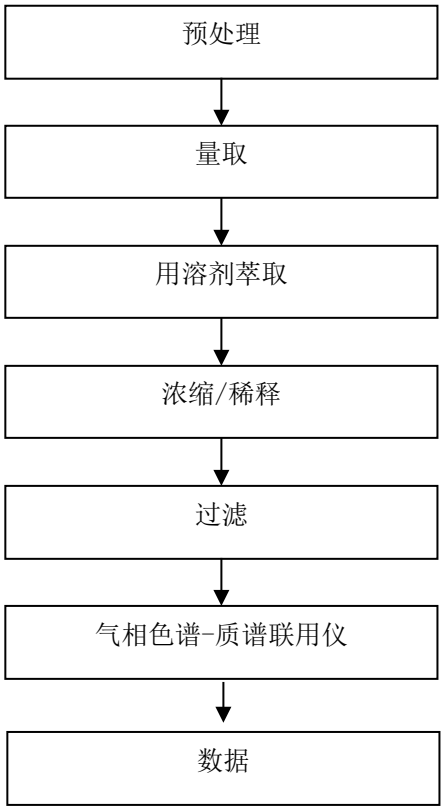
DMF(富马酸二甲酯)检测流程图



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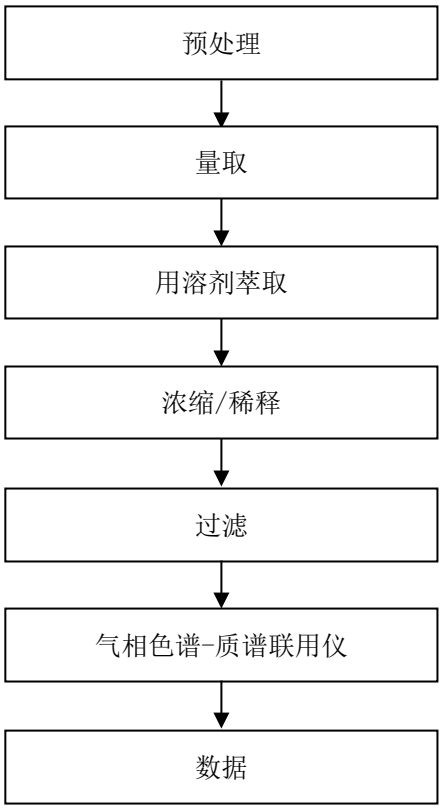
HBCDD 检测流程图



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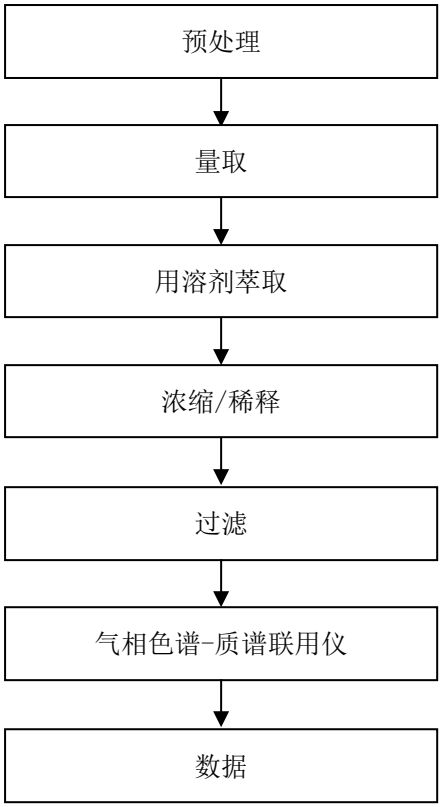
Phthalates 检测流程图



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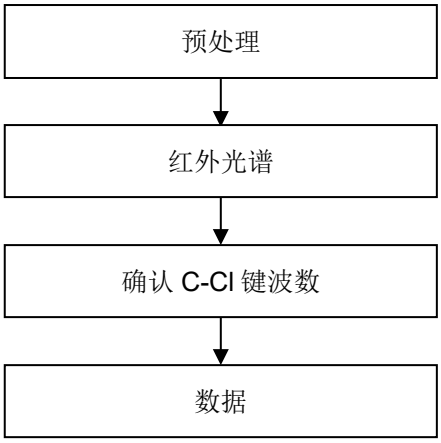
PVC 检测流程图



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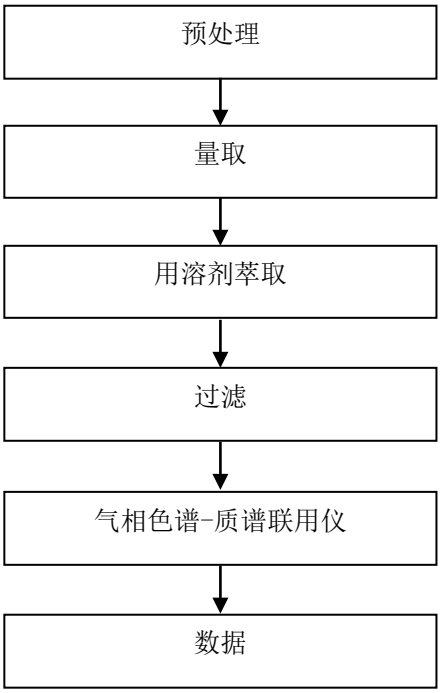
持久性、生物累积性和毒性（PBT）化学物质检测流程图



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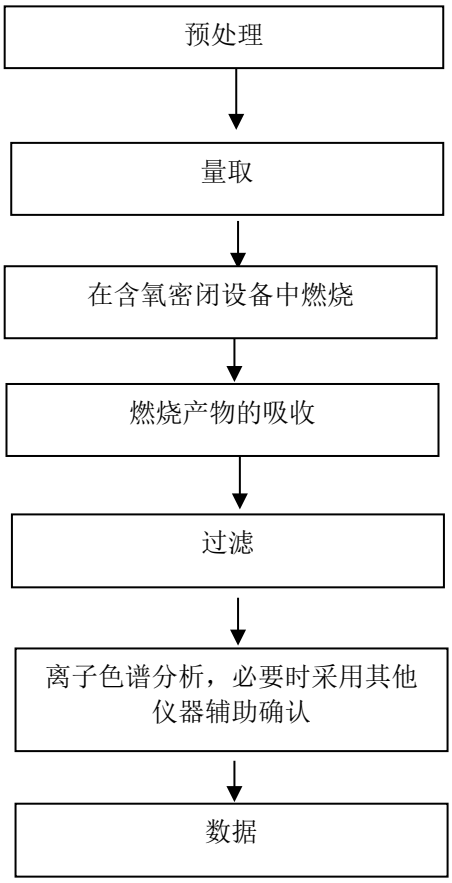
卤素检测流程图



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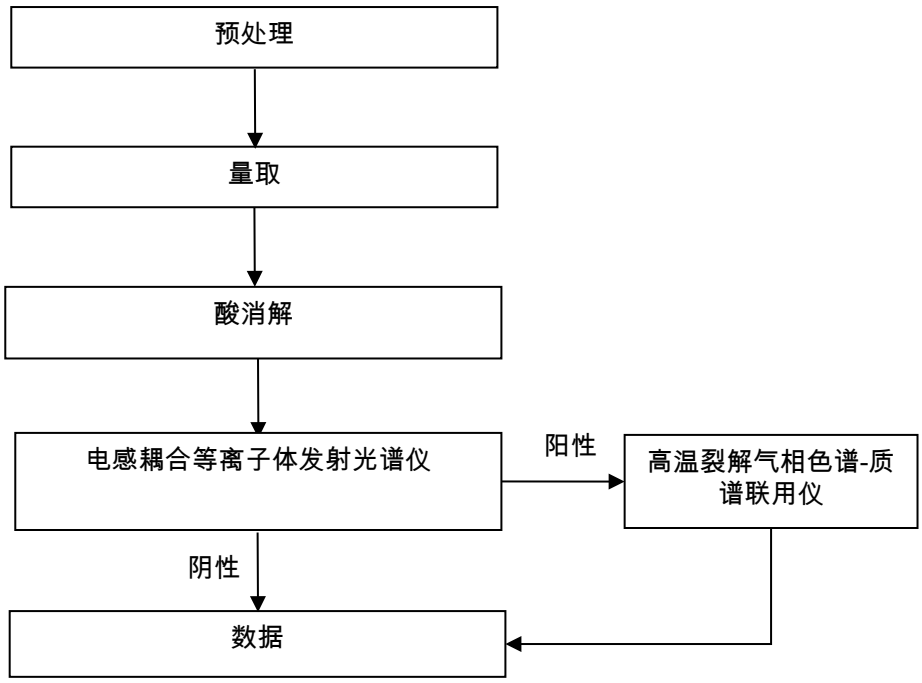
红磷检测流程图



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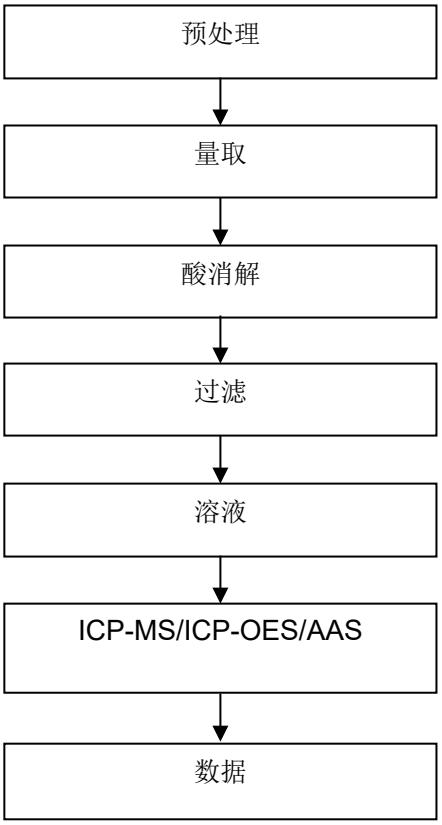
元素检测流程图



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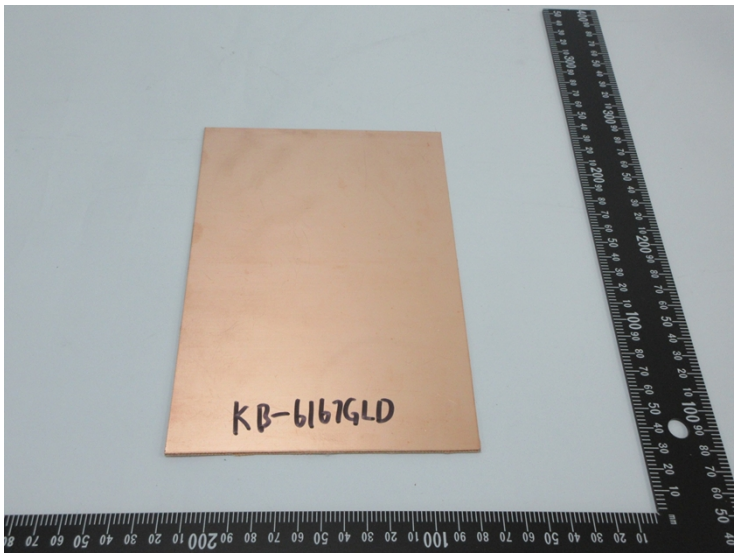

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