

检测报告 编号: CANEC25010703712 日期: 2025年05月22日 第1页,共25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: FR-4.1

型号: KB-6165GMD 客户参考信息: KB-6167GMD

以上样品及信息由客户提供。

SGS 工作编号: GZP25-012452

样品接收时间: 2025年05月12日

检测周期: 2025年05月12日~2025年05月20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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Arsene Ye 叶士龙 批准签署人





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| 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 | A4 | CAN25-0107037-0001.C004 | 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 | A4 |
|---------------|------|-------|-----|----|
| 铅 (Pb) | 1000 | mg/kg | 2 | 10 |
| 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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| 检测项目 | 限值 | 单位 | MDL | A4 |
|------------------------|------|-------|-----|----|
| 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 | A4 |
|------------------------|----------|-------|-----|----|
| 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 |
| 崫 (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 | A4 |
|--|----------|-------|-----|----|
| 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

| AIFO(德国)而女主安贝云),从此对多个方律层的安本 | | | | | | | |
|---|--|----------------------|---|------------------------|------------------------|--|--|
| | 1类 | 2 🕏 | 类 | 3 类 | | | |
| 参数 单位 : mg/kg | 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 不属于第 1 类,设计意图或 不属于第 1 和 2 类,该图或可预见与皮肤短期(超过 30 秒)或短期重复 接触。的材料 (不超过 30 秒)材料 | | 长 不属丁第 1 矣,该订息图或 可预见 d 与皮肤长期接触 (超过 30 秒)或短期重复 接触。的材料 | | 支肤短期接触 | | |
| | 的玩具,或 -供 3 岁以下儿童 ^{a,b} 使用。 | 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 | | |
| 薜 (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)菲(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),荥 蒽 (FLT) | <1 (总和) | <5 (总和) | < 10 (总和) | < 20 (总和) | < 50 (总和) | | |
| 萘 (NAP) | < 1 | < : | 2 | < 1 | 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。



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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)。

^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 | A4 |
|----------------|---------|-------|-----|----|
| 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 | A4 |
|---|--------------------|-------|-----|----|
| 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 | A4 |
|---|------------|-------|-----|----|
| 2-苯并三唑-2-基-4,6-二叔丁基苯酚(UV 320) | 3846-71-7 | mg/kg | 5 | ND |
| 2-(2H-苯并三唑-2-基)-4-(叔丁基)-6-(仲丁基)苯酚(UV 350) | 36437-37-3 | mg/kg | 5 | ND |
| 2-(2H-苯并三唑-2-基)-4,6-二叔戊基苯酚 (UV 328) | 25973-55-1 | mg/kg | 5 | ND |
| 2,4-二叔丁基-6-(5-氯苯并三唑-2-基)苯酚 (UV 327) | 3864-99-1 | mg/kg | 5 | 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 HPLC-DAD/MS / LC-MS/MS 进行分析。

| 检测项目 | CAS No. | 单位 | MDL | A4 |
|------|---------|-------|-----|----|
| 双酚-A | 80-05-7 | mg/kg | 1.0 | ND |

氯化石蜡



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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 | A4 |
|---|------------|-------|-----|----|
| 短链氯化石蜡(SCCP)(C ₁₀ -C ₁₃) | 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 | A4 |
|---------------|----------|-------|-----|----|
| 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 | A4 |
|------|-------|-----|----|
| 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 | A4 |
|--|--|-------|-----|----|
| 六溴环十二烷(HBCDD)及其非对映异构 体(α-HBCDD, β-HBCDD, γ-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 | A4 |
|------------------------|---------------------------|-------|-----|----|
| 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 |



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| 检测项目 | CAS No. | 单位 | MDL | A4 |
|-----------------------------------|-------------|-------|-----|----|
| 邻苯二甲酸二戊酯 (DPENP/ DnPP) | 131-18-0 | mg/kg | 50 | ND |
| 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 | 117-83-9 | ma/ka | 50 | ND |
| (DBEP) | 117-03-9 | mg/kg | 50 | ND |
| 邻苯二甲酸二(4-甲基-2-戊基)酯 | 146-50-9 | mg/kg | 50 | ND |
| (BMPP) | | | | |
| 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 | 00545 50 4 | | 50 | ND |
| (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: SGS 内部方法 (SGS-CCL-TOP-066-01), 采用 FTIR/HATR 进行分析。

| 检测项目 | A4 |
|------------|----|
| 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: 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。

| 检测项目 | CAS No. | 限值 | 单位 | MDL | A4 |
|---------------------------|------------|-------|-------|-----|----|
| 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。

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 | A4 |
|--------|-------|-----|------|
| 氟 (F) | mg/kg | 20 | 1364 |
| 氯 (CI) | mg/kg | 50 | 123 |
| 溴 (Br) | mg/kg | 50 | ND |
| 碘 (I) | mg/kg | 50 | ND |

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 | CAS No. | 单位 | MDL | A4 |
|------|-----------|-------|-----|----|
| 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 | A4 |
|-------|-------|-----|----|
| 砷(As) | mg/kg | 10 | ND |
| 铍(Be) | mg/kg | 5 | ND |
| 镍(Ni) | mg/kg | 5 | ND |
| 锑(Sb) | mg/kg | 10 | ND |

检验检测专用章 Inspection & Testing Services SGS-CST Send grds Technical Services Guangzhou Brans Services Funcial Laboratory.

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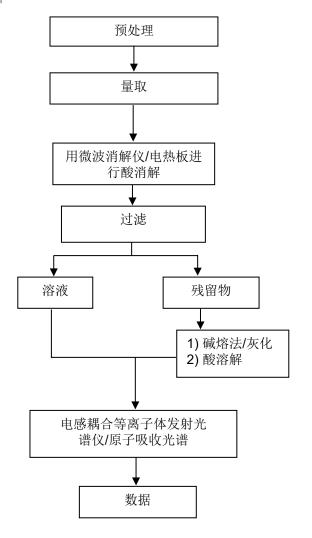
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附件

元素检测流程图

样品按照下述流程被完全消解





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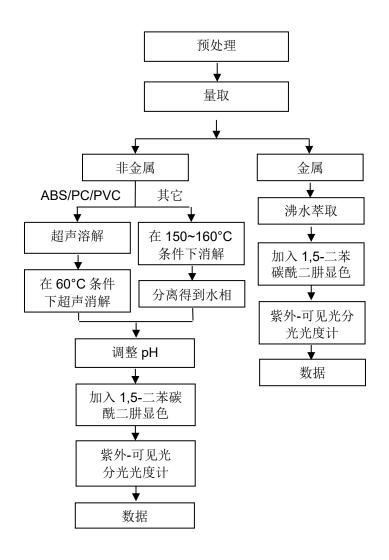


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六价铬检测流程图





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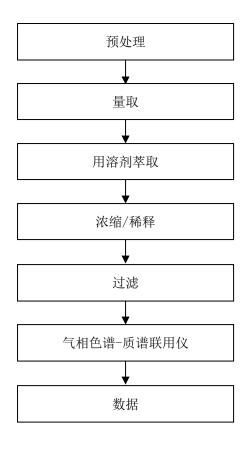


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PBB/PBDE/Phthalates 检测流程图





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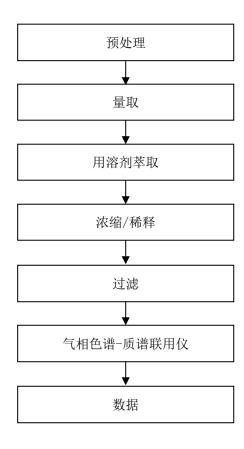


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PAHs 检测流程图





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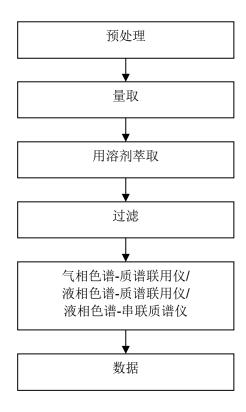


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TBBP-A 检测流程图





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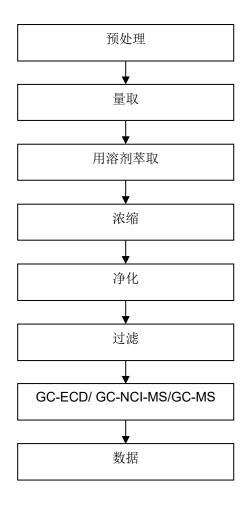


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氯化石蜡检测流程图





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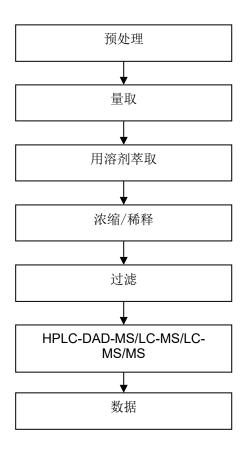


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双酚类化合物检测流程图





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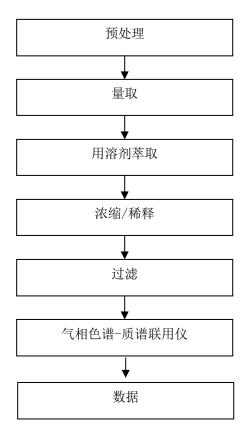


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DMF(富马酸二甲酯)检测流程图





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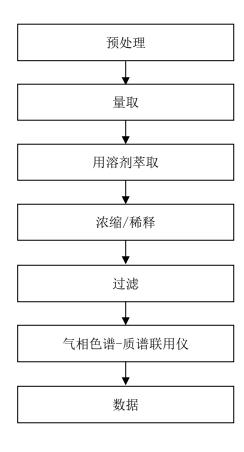


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HBCDD 检测流程图





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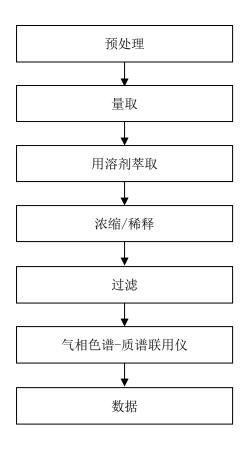


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Phthalates 检测流程图





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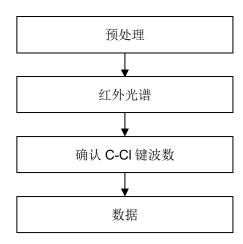


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PVC 检测流程图





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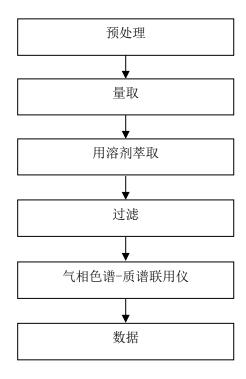


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持久性、生物累积性和毒性(PBT)化学物质检测流程图





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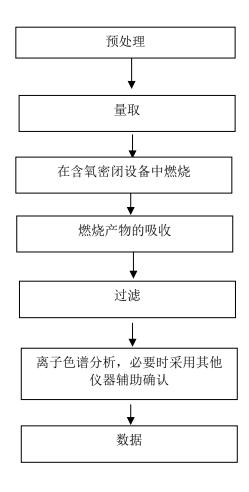


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卤素检测流程图





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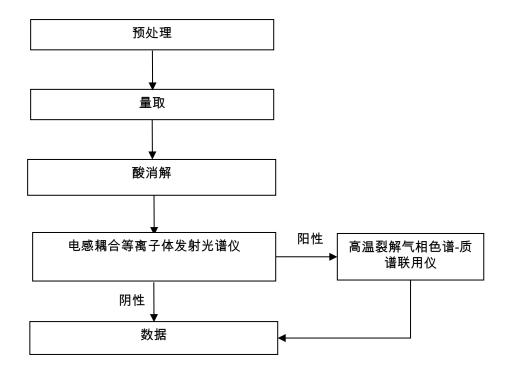
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附件

红磷检测流程图





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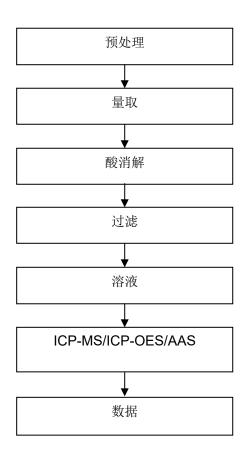


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元素检测流程图





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