

测试报告

No. CANEC2121017602

日期: 2021年11月24日 第1页,共22页

建滔积层板控股有限公司
香港新界沙田安耀街三号汇达大厦二十三楼

以下测试之样品是由申请者所提供及确认: KB-6167G

SGS工作编号: CP21-058117 - GZ
型号: KB-6167G
客户参考信息: PI-520G
样品接收日期: 2021年11月10日
测试周期: 2021年11月10日 - 2021年11月23日
测试要求: 根据客户要求测试
测试方法: 请参见下一页
测试结果: 请参见下一页

测试结果概要:

| 测试要求 | 结论 |
|--|-------|
| RoHS指令2011/65/EU附录II的修正指令(EU) 2015/863 | 符合 |
| 卤素 | 见测试结果 |
| 元素分析 | 见测试结果 |
| 四溴双酚-A | 见测试结果 |
| 红磷 | 见测试结果 |
| 邻苯二甲酸盐(或酯) | 见测试结果 |
| 六溴环十二烷(HBCDD) | 见测试结果 |
| 全氟辛酸(PFOA)及其盐 & 全氟辛烷磺酸 (PFOS) 及其衍生物 | 见测试结果 |
| 甲醛 | 见测试结果 |
| 有机锡 | 见测试结果 |
| 欧盟POPs法规(EU) 2019/1021-短链氯化石蜡(SCCPs) (C ₁₀ -C ₁₃) | 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 |
| 苯并三唑类紫外吸收剂 | 见测试结果 |



测试报告

No. CANEC2121017602

日期: 2021年11月24日 第2页,共22页

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测试报告

No. CANEC2121017602

日期: 2021年11月24日 第3页,共22页

测试结果:

测试样品描述:

| 样品编号 | SGS样品ID | 描述 |
|------|------------------|-------|
| SN1 | CAN21-210176.001 | 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

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

测试方法: 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.

| 测试项目 | 限值 | 单位 | MDL | 001 |
|----------------|------|-------|-----|-----|
| 镉 (Cd) | 100 | mg/kg | 2 | ND |
| 铅 (Pb) | 1000 | mg/kg | 2 | 6 |
| 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 |
| 五溴二苯醚 | - | mg/kg | 5 | ND |
| 六溴二苯醚 | - | mg/kg | 5 | ND |



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| 测试项目 | 限值 | 单位 | MDL | 001 |
|-----------------------|------|-------|-----|-----|
| 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

https://www.cenelec.eu/dyn/www/f?p=104:30:1742232870351101:::FSP_ORG_ID,FSP_LANG_ID:1258637,25

(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。

卤素

测试方法: 参考EN 14582:2016, 用 IC分析。

| 测试项目 | 单位 | MDL | 001 |
|--------|-------|-----|-----|
| 氟 (F) | mg/kg | 50 | 359 |
| 氯 (Cl) | mg/kg | 50 | 91 |
| 溴 (Br) | mg/kg | 50 | ND |
| 碘 (I) | mg/kg | 50 | ND |

元素分析

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

| 测试项目 | 单位 | MDL | 001 |
|--------|-------|-----|-----|
| 砷 (As) | mg/kg | 10 | ND |
| 锑 (Sb) | mg/kg | 10 | ND |
| 铍(Be) | mg/kg | 5 | ND |

四溴双酚-A



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日期: 2021年11月24日 第5页,共22页

测试方法: SGS内部方法(GZTC CHEM-TOP-065, 参考EPA 3540C:1996 & EPA 8270E:2017), 采用LC-MS/MS进行分析。

| 测试项目 | 单位 | MDL | 001 |
|--------|-------|-----|-----|
| 四溴双酚-A | mg/kg | 5 | ND |

红磷

测试方法: SGS内部方法(GZTC CHEM-TOP-215-01), 采用PY-GC/MS / ICP-OES 进行分析。

| 测试项目 | 单位 | MDL | 001 |
|------|-------|-----|-----|
| 红磷 | mg/kg | 500 | ND |

邻苯二甲酸盐(或酯)

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

| 测试项目 | CAS NO. | 单位 | MDL | 001 |
|-------------------------|----------------------------|--------|-------|-----|
| 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 |



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| 测试项目 | CAS NO. | 单位 | MDL | 001 |
|----------------------------------|-------------|--------|-------|-----|
| 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 |
| 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基酯 (DTDP) | 119-06-2 | %(w/w) | 0.003 | ND |
| 偏苯三酸三(2-乙基己基)酯 (TOTM) | 3319-31-1 | %(w/w) | 0.003 | ND |
| 对苯二甲酸二(2-乙基己基)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



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日期: 2021年11月24日 第7页,共22页

六溴环十二烷(HBCDD)

测试方法: SGS 内部方法(GZTC CHEM-TOP-073, 参考EPA 3550C:2007), 采用GC-MS进行分析。

| 测试项目 | CAS NO. | 单位 | MDL | 001 |
|---|--|-------|-----|-----|
| 六溴环十二烷(HBCDD) 及其非对映异构体(α -HBCDD, β -HBCDD, γ -HBCDD) | 25637-99-4 3194-55-6 134237-50-6 134237-51-7 134237-52-8 | mg/kg | 10 | ND |

全氟辛酸(PFOA)及其盐 & 全氟辛烷磺酸 (PFOS)及其衍生物

测试方法: 参考CEN/TS 15968:2010, 采用LC-MS或LC-MS/MS进行分析。

| 测试项目 | CAS NO. | 单位 | MDL | 001 |
|----------------------------|------------|-------|-------|-----|
| 全氟辛酸 (PFOA) 及其盐+ | 335-67-1 | 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(MeFOSA) | 31506-32-8 | mg/kg | 0.010 | ND |
| N-乙基全氟辛烷磺酰胺(EtFOSA) | 4151-50-2 | mg/kg | 0.010 | ND |
| 2-(N-甲基全氟辛基磺酰胺)乙醇(MeFOSE) | 24448-09-7 | mg/kg | 0.010 | ND |
| 2-(N-乙基全氟辛基磺酰胺)乙醇(EtFOSE) | 1691-99-2 | mg/kg | 0.010 | ND |
| 全氟辛烷磺酸 (PFOS) 及其衍生物 | - | mg/kg | - | 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), 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)

甲醛

测试方法: 参考 ISO 14184-1:2011, 用 UV-Vis 分析。

| 测试项目 | CAS NO. | 单位 | MDL | 001 |
|------|---------|-------|-----|-----|
| 甲醛 | 50-00-0 | mg/kg | 16 | ND |

有机锡



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测试报告

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

| 测试项目 | 单位 | MDL | 001 |
|------------|-------|------|-----|
| 二丁基锡(DBT) | mg/kg | 0.02 | ND |
| 三丁基锡(TBT) | mg/kg | 0.02 | ND |
| 二辛基锡(DOT) | mg/kg | 0.02 | ND |
| 三苯基锡(TPhT) | mg/kg | 0.02 | ND |

欧盟POPs法规(EU) 2019/1021-短链氯化石蜡(SCCPs) (C₁₀~C₁₃)

测试方法: 参考ISO 18219-1:2021, 采用GC-NCI-MS进行分析。

| 测试项目 | 限值 | 单位 | MDL | 001 |
|---|------|-------|-----|-----|
| 短链氯化石蜡(SCCPs) (C ₁₀ ~C ₁₃) | 1500 | mg/kg | 50 | ND |
| 评论 | | | | 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

测试方法: 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。

| 测试项目 | CAS NO. | 限值 | 单位 | MDL | 001 |
|--------------------------------------|------------|-------|-------|-----|-----|
| 十溴二苯醚 (Deca-BDE) Δ^1 | 1163-19-5 | ★ | mg/kg | 5 | ND |
| 异丙基化磷酸三苯酯 (PIP 3:1) Δ^2 | 68937-41-7 | ★ | mg/kg | 5 | ND |
| 2,4,6-三叔丁基苯酚 (2,4,6-TTBP) Δ^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 |
| 结论 | | | | | 符合 |

备注:

1. “★”= 禁止使用
2. 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>
3. Δ^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;
4. Δ^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;



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- 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
5. Δ³: 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;

苯并三唑类紫外吸收剂

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

| 测试项目 | CAS NO. | 单位 | MDL | 001 |
|---------------------------------|------------|-------|-----|-----|
| 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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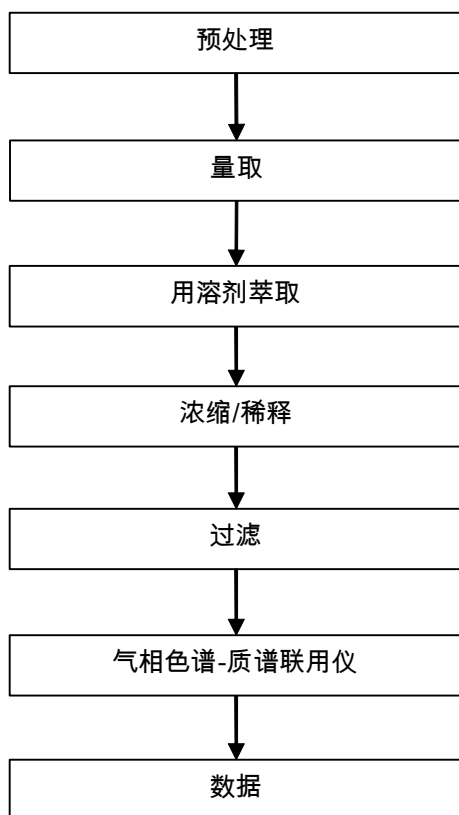


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附件

PBBs / PBDEs 测试流程图



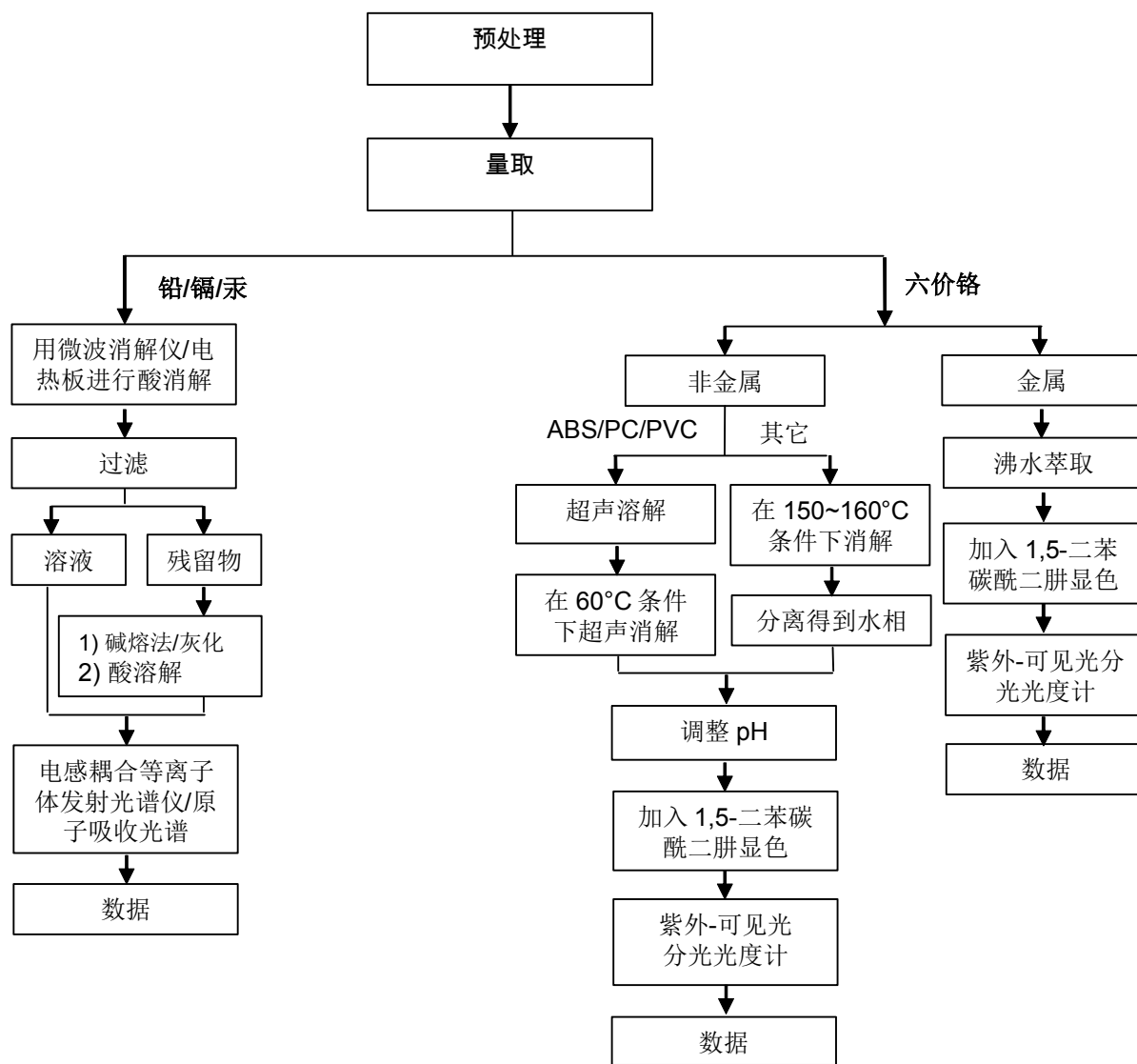
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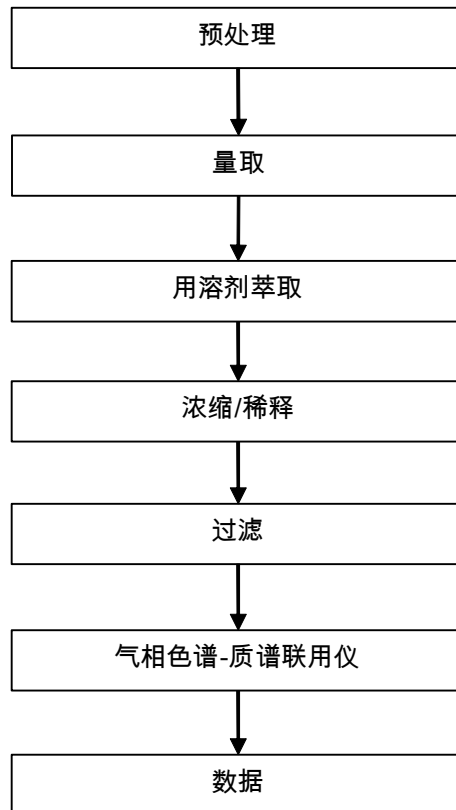
Pb/Cd/Hg/Cr⁶⁺ 测试流程图

1) 样品按照下述流程被完全消解（六价铬测试除外）。



附件

Phthalates 测试流程图

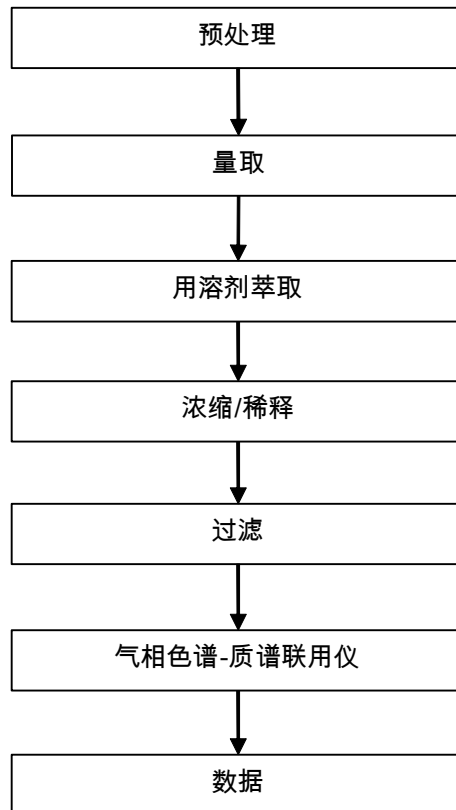


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Phthalates 测试流程图

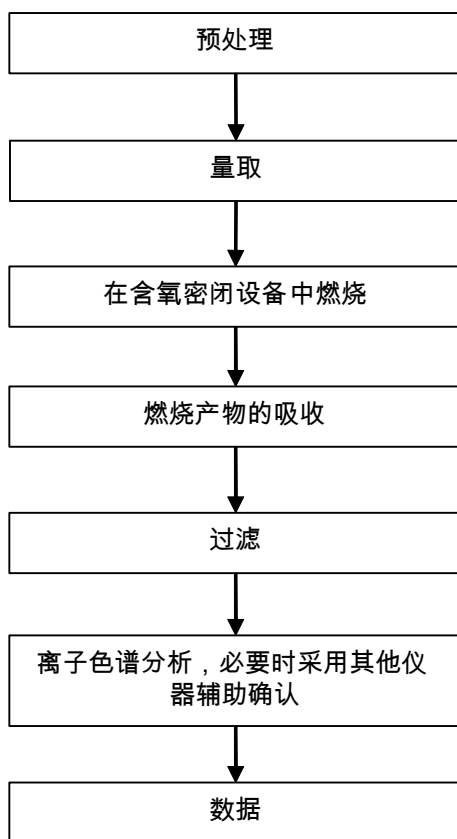


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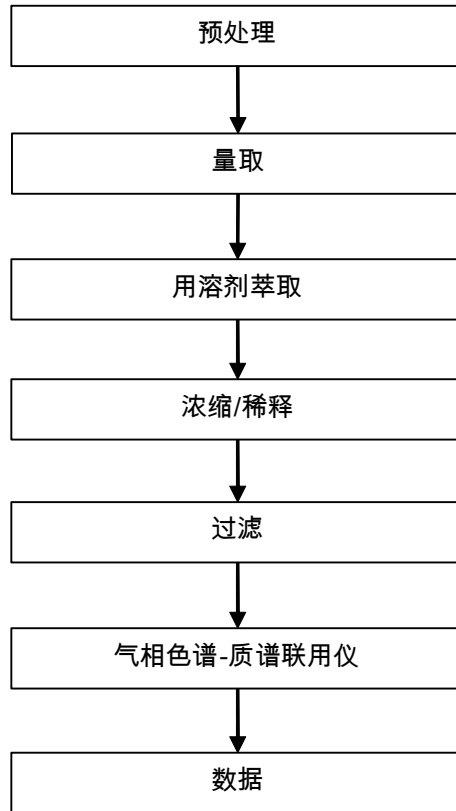
附件

Halogen 测试流程图



附件

HBCDD 测试流程图

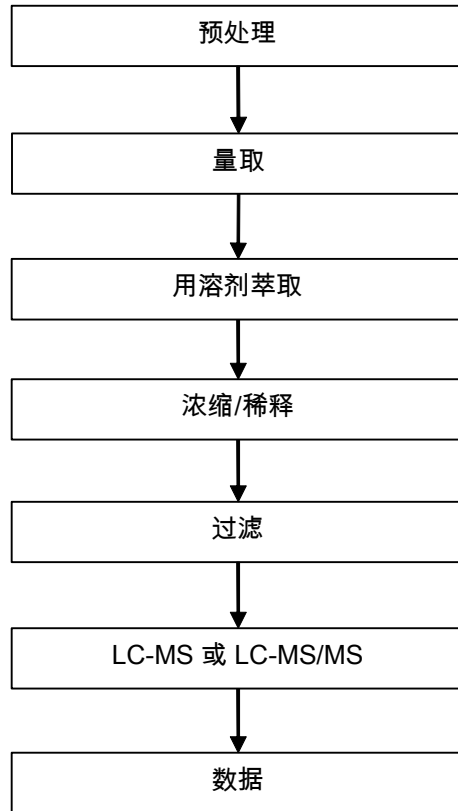


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PFOA / PFOS 测试流程图

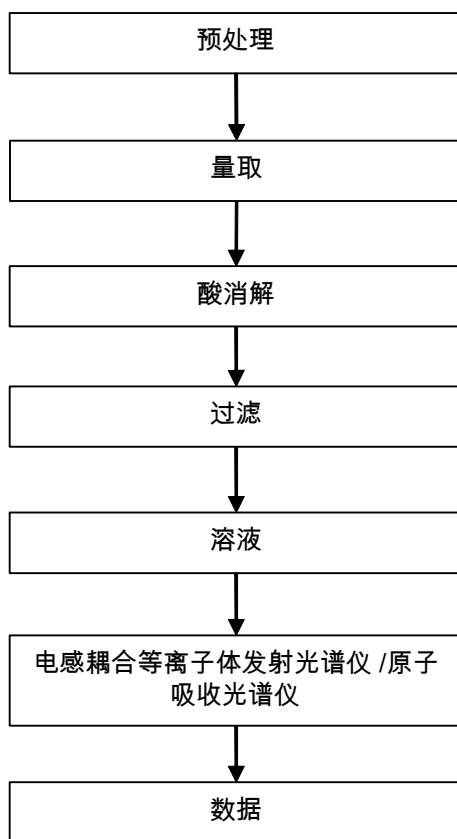


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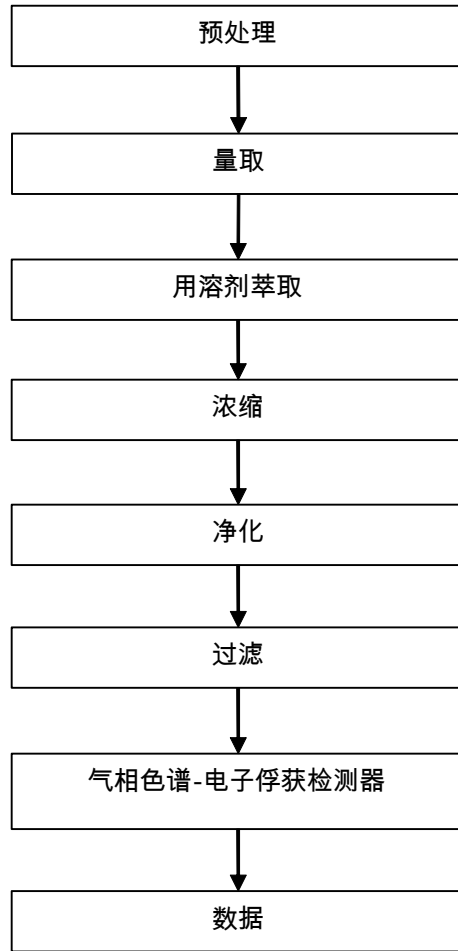
附件

元素测试流程图



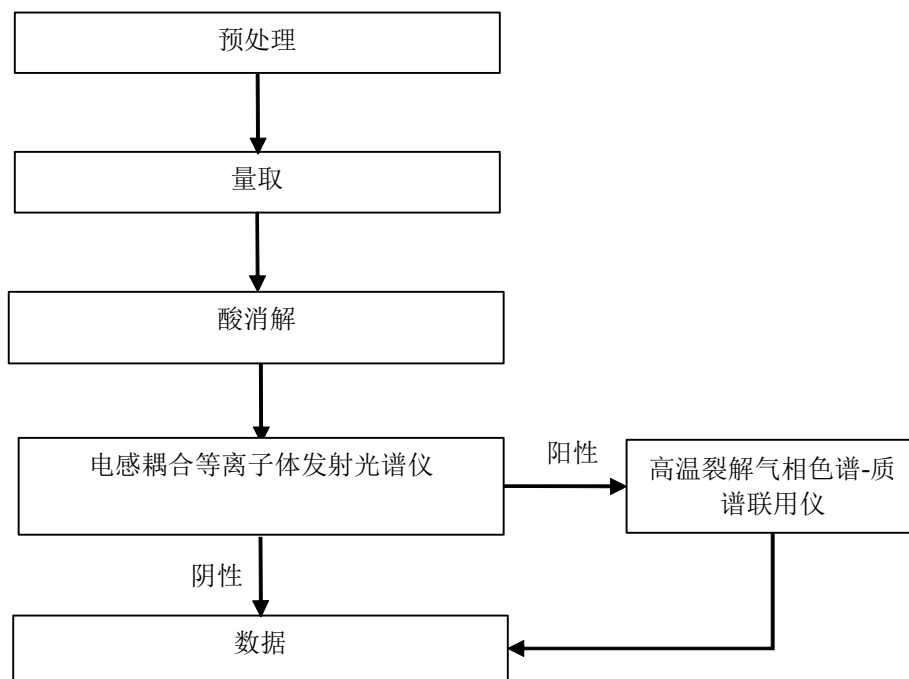
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SCCP/MCCP/LCCP 测试流程图



附件

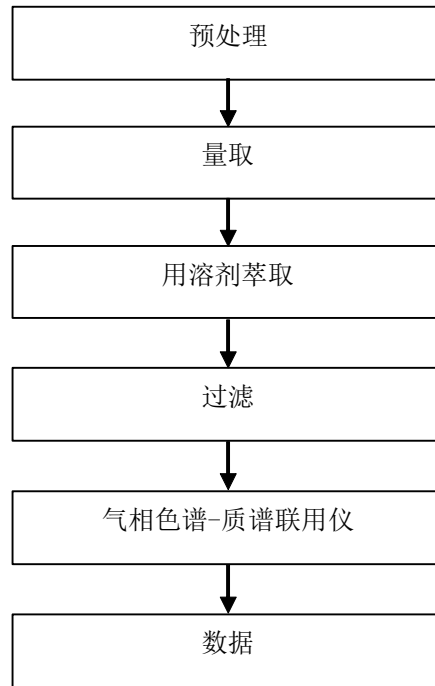
红磷测试流程图



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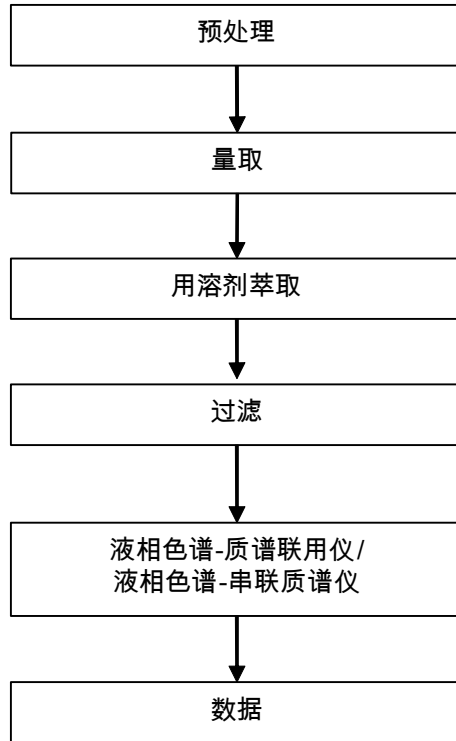
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持久性、生物累积性和毒性 (PBT) 化学物质测试流程图



附件

TBBP-A 测试流程图



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