

检测报告

编号: SHAEC2206796001

日期: 2022年06月22日 第1页,共16页

客户名称: 深圳市百利合新材料发展有限公司

客户地址: 深圳市龙华区观澜街道库坑社区库坑观光路1310号厂房1栋408

样品名称: 感光湿膜

型号: BLK-1000

以上样品及信息由客户提供。

SGS工作编号: SP22-010229 - SH

样品接收日期: 2022年06月13日

检测周期: 2022年06月13日 - 2022年06月22日

检测要求: 根据客户要求检测

检测方法: 请参见下一页

检测结果: 请参见下一页

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

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Jenny Lan 兰柳珍
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日期: 2022年06月22日 第2页,共16页

检测结果:

检测样品描述:

| 样品编号 | SGS样品ID | 描述 |
|------|------------------|------|
| SN1 | SHA22-067960.001 | 白色液体 |

备注:

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

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

检测方法: 参考IEC 62321-4:2013+AMD1:2017, IEC 62321-5:2013, IEC 62321-7-2:2017, IEC 62321-6:2015和IEC 62321-8:2017, 采用ICP-OES, UV-Vis和GC-MS进行分析。

| 检测项目 | 限值 | 单位 | MDL | 001 |
|----------------|------|-------|-----|-----|
| 镉(Cd) | 100 | mg/kg | 2 | ND |
| 铅(Pb) | 1000 | mg/kg | 2 | ND |
| 汞(Hg) | 1000 | mg/kg | 2 | ND |
| 六价铬 (Cr(VI)) | 1000 | mg/kg | 8 | ND |
| 多溴联苯之和(PBBs) | 1000 | mg/kg | - | ND |
| 一溴联苯 | - | mg/kg | 5 | ND |
| 二溴联苯 | - | mg/kg | 5 | ND |
| 三溴联苯 | - | mg/kg | 5 | ND |
| 四溴联苯 | - | mg/kg | 5 | ND |
| 五溴联苯 | - | mg/kg | 5 | ND |
| 六溴联苯 | - | mg/kg | 5 | ND |
| 七溴联苯 | - | mg/kg | 5 | ND |
| 八溴联苯 | - | mg/kg | 5 | ND |
| 九溴联苯 | - | mg/kg | 5 | ND |
| 十溴联苯 | - | mg/kg | 5 | ND |
| 多溴二苯醚之和(PBDEs) | 1000 | mg/kg | - | ND |
| 一溴二苯醚 | - | mg/kg | 5 | ND |
| 二溴二苯醚 | - | mg/kg | 5 | ND |
| 三溴二苯醚 | - | mg/kg | 5 | ND |
| 四溴二苯醚 | - | mg/kg | 5 | ND |



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日期: 2022年06月22日 第3页,共16页

| 检测项目 | 限值 | 单位 | MDL | 001 |
|-----------------------|------|-------|-----|-----|
| 五溴二苯醚 | - | mg/kg | 5 | ND |
| 六溴二苯醚 | - | mg/kg | 5 | ND |
| 七溴二苯醚 | - | mg/kg | 5 | ND |
| 八溴二苯醚 | - | mg/kg | 5 | ND |
| 九溴二苯醚 | - | mg/kg | 5 | ND |
| 十溴二苯醚 | - | mg/kg | 5 | ND |
| 邻苯二甲酸二丁酯 (DBP) | 1000 | mg/kg | 50 | ND |
| 邻苯二甲酸丁苄酯(BBP) | 1000 | mg/kg | 50 | ND |
| 邻苯二甲酸二(2-乙基己基)酯(DEHP) | 1000 | mg/kg | 50 | ND |
| 邻苯二甲酸二异丁酯(DIBP) | 1000 | mg/kg | 50 | ND |

备注:

(1) 最大允许极限值引用自RoHS指令(EU) 2015/863。

IEC 62321系列等同于 EN 62321系列

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

(2) 2021年7月22号开始, DEHP, BBP, DBP 和 DIBP的限制适用于医疗器械, 包括体外医疗器械, 监控仪表, 包括工业监测和控制仪器。

卤素

检测方法: 参照EN 14582: 2016方法测定, 采用IC进行分析。

| 检测项目 | 单位 | MDL | 001 |
|--------|-------|-----|-----|
| 氟 (F) | mg/kg | 50 | ND |
| 氯 (Cl) | mg/kg | 50 | ND |
| 溴 (Br) | mg/kg | 50 | ND |
| 碘 (I) | mg/kg | 50 | ND |

元素

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

| 检测项目 | 单位 | MDL | 001 |
|--------|-------|-----|-----|
| 铈 (Sb) | mg/kg | 10 | ND |
| 铍 (Be) | mg/kg | 5 | ND |
| 砷 (As) | mg/kg | 10 | ND |



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四溴双酚-A

检测方法: 参照 US EPA 3540C: 1996 方法测定, 采用GC-MS/LC-MS 进行分析.

| 检测项目 | 单位 | MDL | 001 |
|--------|-------|-----|-----|
| 四溴双酚-A | mg/kg | 10 | ND |

聚氯乙烯(PVC)

检测方法: 以内定方法(SHTC-CHEM-SOP-115-T) 测定, 采用FTIR/HATR进行分析.

| 检测项目 | CAS NO. | 单位 | MDL | 001 |
|-----------|-----------|----|-----|-----|
| 聚氯乙烯(PVC) | 9002-86-2 | - | - | 阴性 |

备注:

(1) 阴性=未检测到,阳性=已检测到

六溴环十二烷(HBCDD)

检测方法: 参考IEC 62321:2008, 采用GC-MS分析六溴环十二烷含量.

| 检测项目 | 单位 | MDL | 001 |
|---------------|-------|-----|-----|
| 六溴环十二烷(HBCDD) | mg/kg | 10 | ND |

邻苯二甲酸酯

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

| 检测项目 | CAS NO. | 单位 | MDL | 001 |
|------------------|---------------------------|----|-------|-----|
| 邻苯二甲酸二异壬酯 (DINP) | 28553-12-0/ 68515-48-0 | % | 0.01 | ND |
| 邻苯二甲酸二正辛酯 (DNOP) | 117-84-0 | % | 0.003 | ND |
| 邻苯二甲酸二异癸酯 (DIDP) | 26761-40-0 /68515-49-1 | % | 0.01 | ND |
| 邻苯二甲酸二戊酯 (DnPP) | 131-18-0 | % | 0.003 | ND |

全氟辛烷磺酸 (PFOS)及衍生物和全氟辛酸(PFOA)



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

| 检测项目 | CAS NO. | 单位 | MDL | 001 |
|----------------------------|------------|-------|------|-----|
| 全氟辛烷磺酸(PFOS)及衍生物 | | mg/kg | - | ND |
| 全氟辛烷磺酸(PFOS)^ | 1763-23-1 | mg/kg | 0.01 | ND |
| 2-(N-甲基全氟辛基磺酰胺)乙醇 (MeFOSE) | 24448-09-7 | mg/kg | 0.01 | ND |
| 2-(N-乙基全氟辛基磺酰胺)乙醇 (EtFOSE) | 1691-99-2 | mg/kg | 0.01 | ND |
| N-甲基全氟辛烷磺酰胺 (MeFOSA) | 31506-32-8 | mg/kg | 0.01 | ND |
| N-乙基全氟辛烷磺酰胺 (EtFOSA) | 4151-50-2 | mg/kg | 0.01 | ND |
| 全氟辛基磺酰胺 (PFOSA) | 754-91-6 | mg/kg | 0.01 | ND |
| 全氟辛酸(PFOA)及其盐+ | | mg/kg | 0.01 | ND |

备注:

- (1) + PFOA 及其盐包含PFOA-Na (CAS No.: 335-95-5), PFOA-K (CAS No.: 2395-00-8), PFOA-Ag (CAS No.: 335-93-3), PFOA-F (CAS No.: 335-66-0) 和 APFO (CAS No.: 3825-26-1);
- (2) ^ 全氟辛烷磺酸 (PFOS)包含 PFOS-K (CAS No.: 2795-39-3), PFOS-Li (CAS No.: 29457-72-5), 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)

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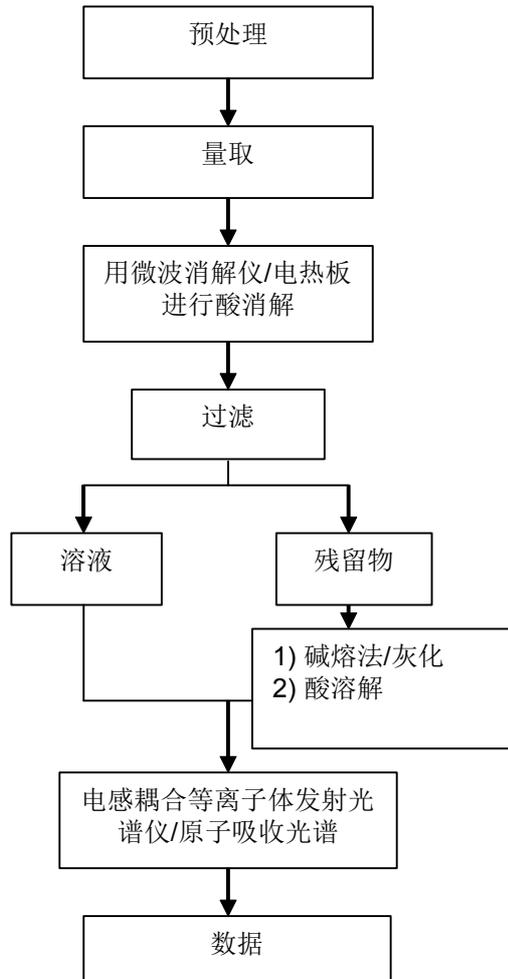


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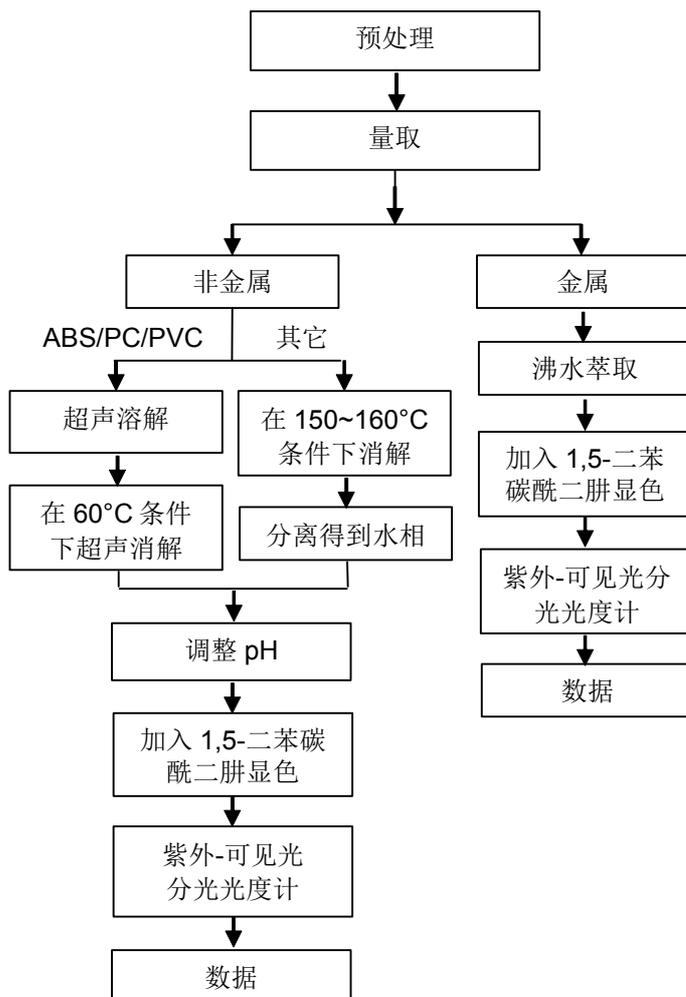
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元素(IEC62321) 检测流程图

1) 样品按照下述流程被完全消解



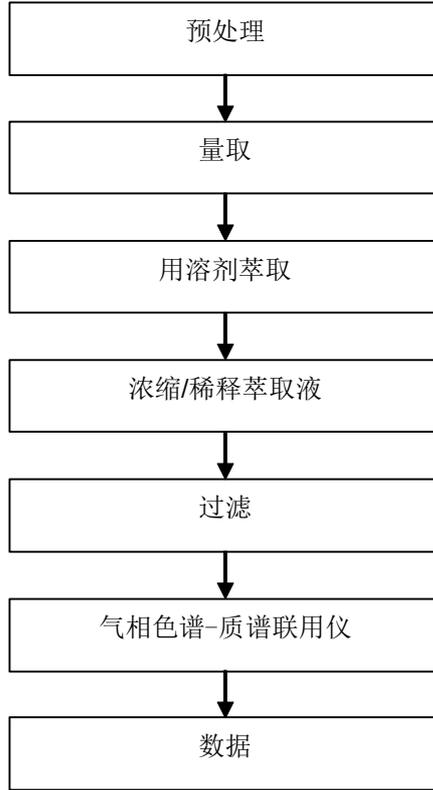
六价铬检测流程图



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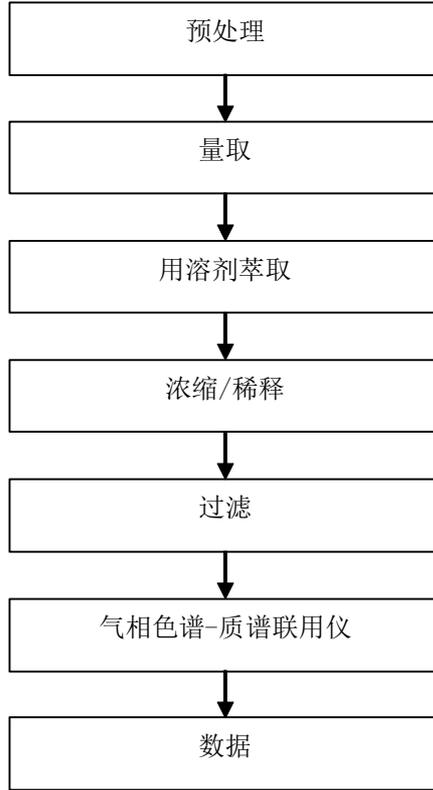
PBBs/PBDEs 检测流程图



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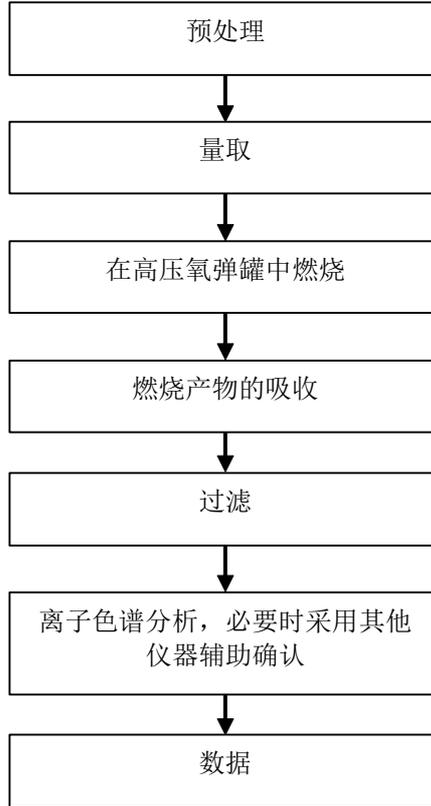
Phthalates 检测流程图



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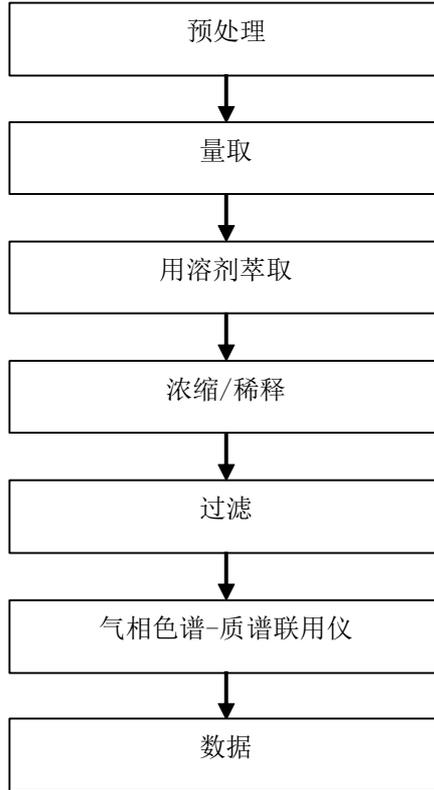
Halogen(氧弹法)检测流程图



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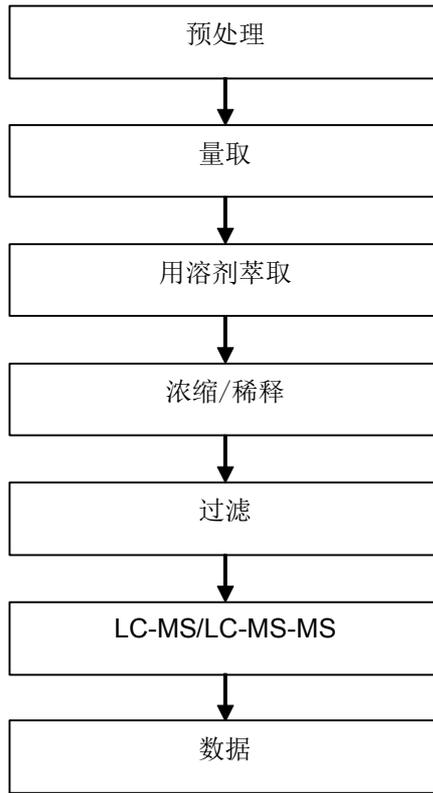
HBCDD 测试流程图



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PFASs/ PFOS/PFOA 检测流程图



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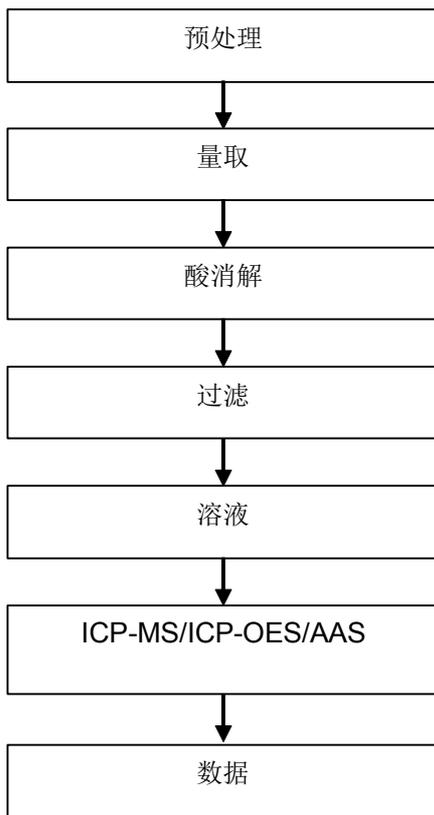
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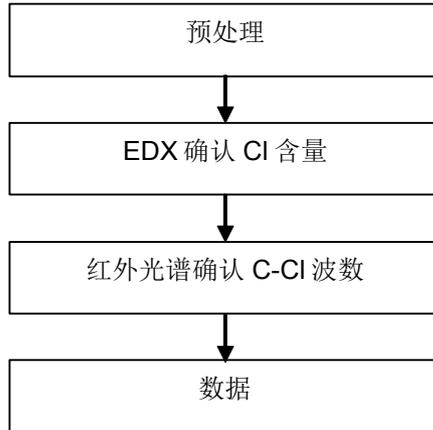
元素检测流程图



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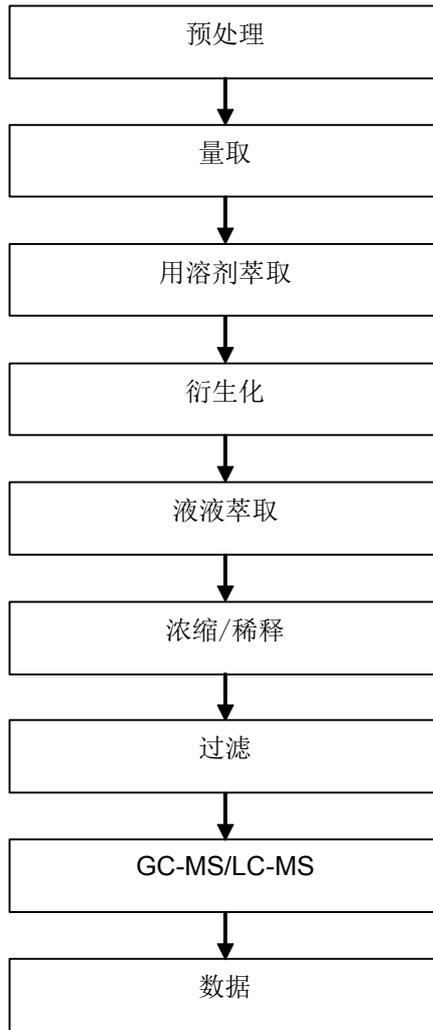
PVC 检测流程图



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TBBP-A 检测流程图



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