

测试报告

No. SZXEC1600108302

日期: 2016年12月07日 第1页,共7页

深圳市联贺电子有限公司

中国深圳市龙岗区龙城街道黄阁路441号龙岗天安数码城创新园一号厂房B1204-5

以下测试之样品是由申请者所提供及确认: TPX离型模

SGS工作编号: RP16-001085 - SZ

型号: CR2101RMT7

主要成份: PET

买家: 印刷线路板软板制造商

样品接收日期: 2016年12月02日

测试周期: 2016年12月02日 - 2016年12月07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

结论: 基于所送样品进行的测试, 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)、邻苯二甲酸丁苄酯(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))的测试结果符合欧盟RoHS指令2011/65/EU附录II的修正指令(EU) 2015/863的限值要求。

通标标准技术服务有限公司深圳分公司
授权签名

聂芳敏

Sunny Nie 聂芳敏
批准签署人

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测试结果:

测试样品描述:

| 样品编号 | SGS样品ID | 描述 |
|------|------------------|----------|
| SN1 | SZX16-001083.001 | 半透明塑胶片状物 |

备注:

- (1) 1 mg/kg = 1 ppm = 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:
- (1)参考IEC 62321-5:2013, 用ICP-OES测定镉的含量
 - (2)参考IEC 62321-5:2013, 用ICP-OES测定铅的含量
 - (3)参考IEC 62321-4:2013, 用ICP-OES测定汞的含量
 - (4)参考IEC 62321:2008, 用紫外-可见分光光度计比色法测定六价铬的含量
 - (5)参考IEC 62321-6:2015, 用GC-MS测定PBBs(多溴联苯)和PBDEs(多溴二苯醚) 的含量
 - (6) 参考IEC 62321-8 :2013(111/321/CD) , 用GC-MS测定邻苯二甲酸酯的含量

| 测试项目 | 限值 | 单位 | MDL | 001 |
|----------------|-------|-------|-----|-----|
| 镉 (Cd) | 100 | mg/kg | 2 | ND |
| 铅 (Pb) | 1,000 | mg/kg | 2 | ND |
| 汞 (Hg) | 1,000 | mg/kg | 2 | ND |
| 六价铬(Cr(VI)) | 1,000 | mg/kg | 2 | ND |
| 多溴联苯之和(PBBs) | 1,000 | 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) | 1,000 | mg/kg | - | ND |
| 一溴二苯醚 | - | mg/kg | 5 | ND |



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

卤素

测试方法: 参照EN 14582:2007方法测定, 采用IC进行分析。

| 测试项目 | 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 |



SGS-CSTC (China) Technical Services Co., Ltd.
Shenzhen Branch Testing Center Chemical Laboratory

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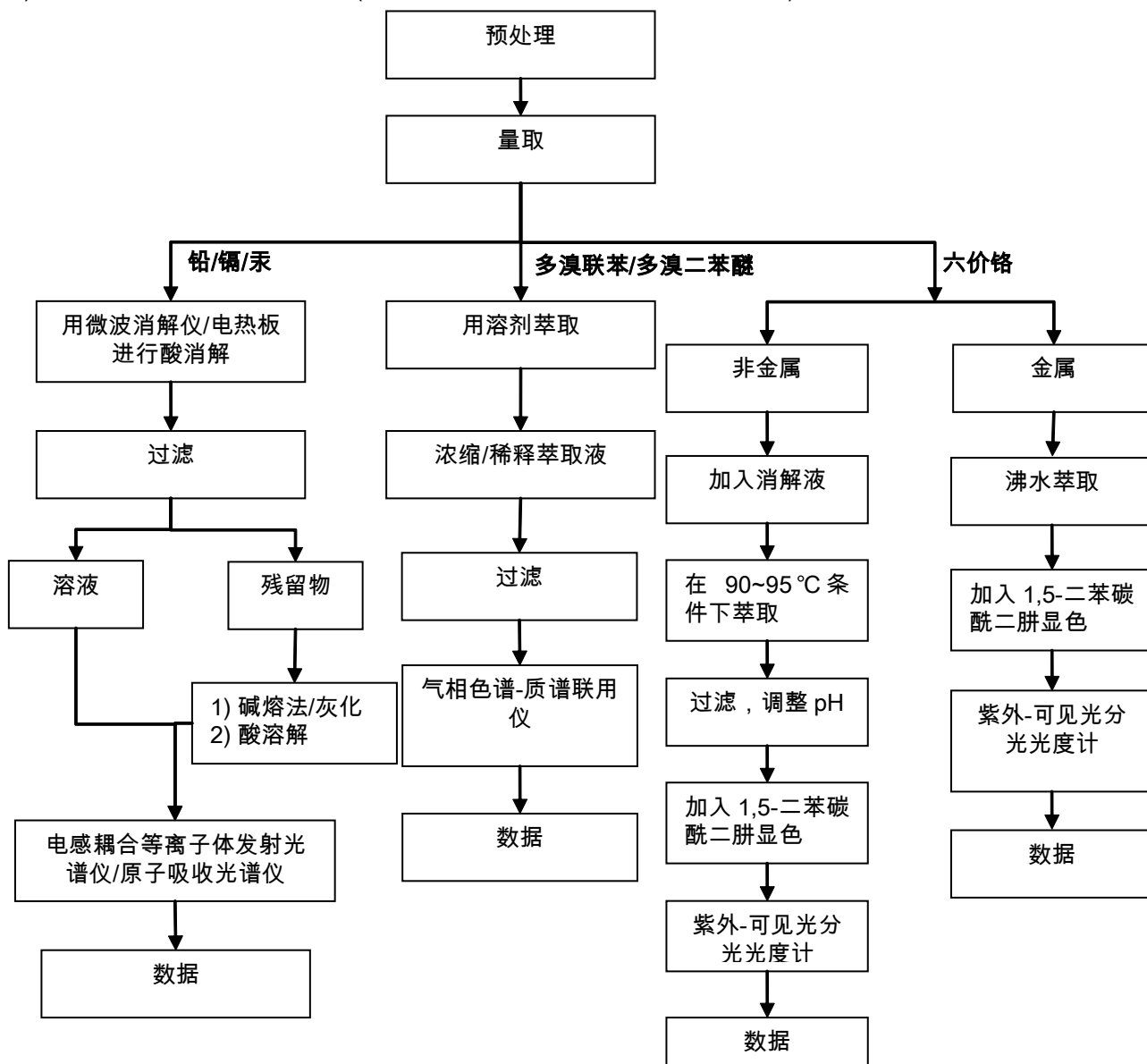
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附件

Pb/Cd/Hg/Cr⁶⁺/PBBs/PBDEs 测试流程图

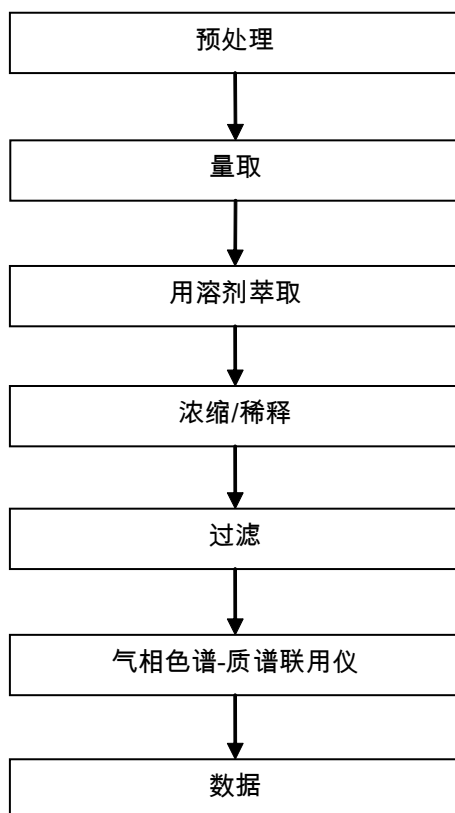
- 1) 分析人员: 邓焕梁 / 麦康志 / 任秋美
- 2) 项目负责人: 罗敏仪 / 李清 / 童妙琦
- 3) 样品按照下述流程被完全消解 (六价铬和多溴联苯/多溴二苯醚测试除外)。



附件

Phthalates 测试流程图

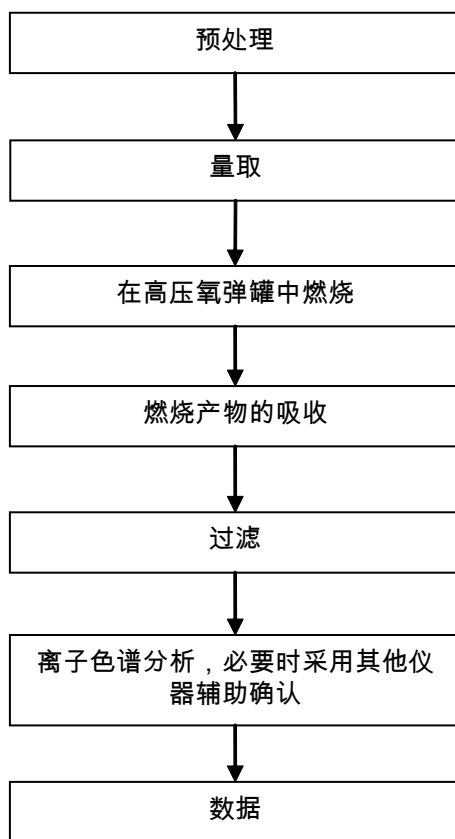
- 1) 分析人员: 麦康志
- 2) 项目负责人: 李清



附件

Halogen 测试流程图

- 1) 分析人员：李龙飞
- 2) 项目负责人：周文凯



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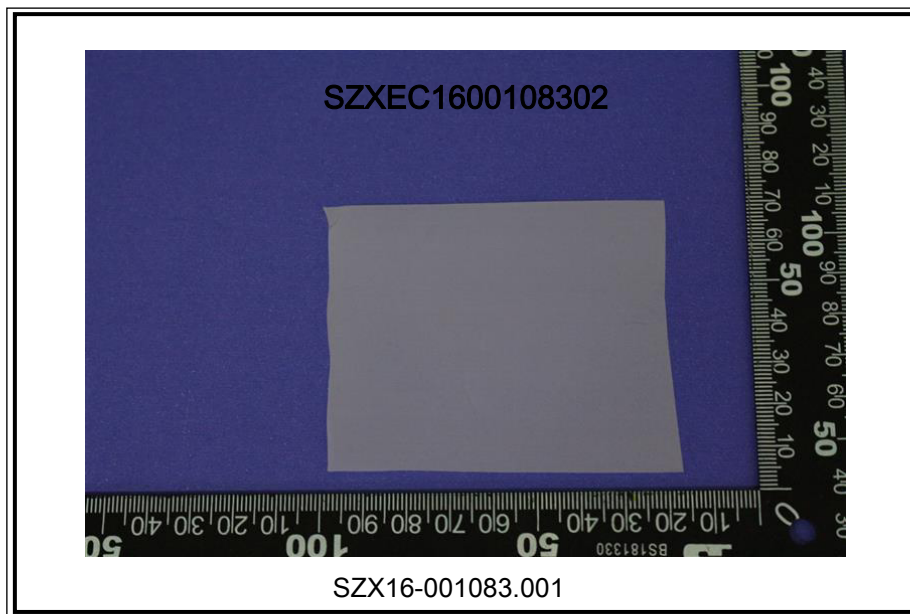
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