

测试报告

No. CANEC1625518714

日期: 2017年01月05日 第1页,共10页

昆山汉品电子有限公司
中国昆山市玉山镇城北五联路698号

以下测试之样品是由申请者所提供及确认: 铝箔

SGS工作编号: CP16-077339 - GZ
测试样品信息: XPH10501
客户参考信息: 见备注
样品接收日期: 2016年12月26日
测试周期: 2016年12月26日 - 2017年01月04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广州分公司
授权签名

吕爱凤

Merry Lv吕爱凤
批准签署人

备注: 本报告是编号为CANEC1625518713报告的中文版本。



测试报告

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日期: 2017年01月05日 第2页,共10页

测试结果:

测试样品描述:

样品编号	SGS样品ID	描述
SN1	CAN16-255187.003	银色铝箔

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:
- (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 62321-7-1:2015, 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	003
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))▼	-	µg/cm ²	0.10	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	003
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。
- (2) ▼=a. 当六价铬的浓度高于0.13 $\mu\text{g}/\text{cm}^2$ 时, 样品为阳性, 即含有六价铬;
 - b. 当六价铬的浓度为ND(低于0.10 $\mu\text{g}/\text{cm}^2$)时, 样品为阴性, 即未检测到六价铬;
 - c. 当六价铬的浓度介于0.10 $\mu\text{g}/\text{cm}^2$ 与0.13 $\mu\text{g}/\text{cm}^2$ 之间时, 无法直接判定是否检测到六价铬, 因不同个体的样品表面差异可能会影响测定结果;
 由于未获知样品的存储条件和生产日期, 样品的六价铬测试结果仅能代表测试时样品含六价铬的状态。
 IEC 62321系列等同于 EN 62321系列
http://www.cenelec.eu/dyn/www/f?p=104:30:1742232870351101:::FSP_ORG_ID,FSP_LANG_ID:1258637,25

卤素

测试方法: 参考EN 14582:2016, 用 IC分析。

测试项目	单位	MDL	003
氟 (F)	mg/kg	50	ND
氯 (Cl)	mg/kg	50	ND
溴 (Br)	mg/kg	50	ND
碘 (I)	mg/kg	50	ND

元素分析

测试方法: 参考US EPA方法3050B:1996, 用ICP-OES分析。



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测试项目	单位	MDL	003
铍 (Be)	mg/kg	5	ND



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备注:

XPH1M091 XPH1M201 XPH1M251 XPH1M351 XPH1M501 XPH1M851 XPH1MA01
XPH1MA51 XPH1MB01 XPH1MC01 XPH1M**1 XPH10201 XPH10091 XPH10201
XPH10221 XPH10251 XPH10351 XPH10501 XPH10751 XPH10851 XPH11001
XPH11501 XPH12001 XPH1***1 XPH1Y181 XPH1Y251 XPH1Y501 XPH1Y701
XPH1Y751 XPH1YA01 XPH1HB01 XPH1YB01 XPH1YC01 XPH1YD01 XPH1YE01
XPH1Y**1 XPH1H**1 XPH1S01 XPH1M01 XPH1Y01 XPH1H01 XPH1001
XPH1*01 XPH1TS01 XPH1N001 XPH1Y061 XPH1M091** XPH1M201** XPH1M251**
XPH1M351** XPH1M501** XPH1M851** XPH1MA01** XPH1MA51** XPH1MB01** XPH1MC01**
XPH1M**1** XPH10201** XPH10091** XPH10201** XPH10221** XPH10251** XPH10351**
XPH10501** XPH10751** XPH10851** XPH11001** XPH11501** XPH12001** XPH1***1**
XPH1Y181** XPH1Y251** XPH1Y501** XPH1Y701** XPH1Y751** XPH1YA01** XPH1HB01**
XPH1YB01** XPH1YC01** XPH1YD01** XPH1YE01** XPH1Y**1** XPH1H**1** XPH1S01**
XPH1M01** XPH1Y01** XPH1H01** XPH1001** XPH1*01** XPH1TS01** XPH1N001**
XPH1Y061**

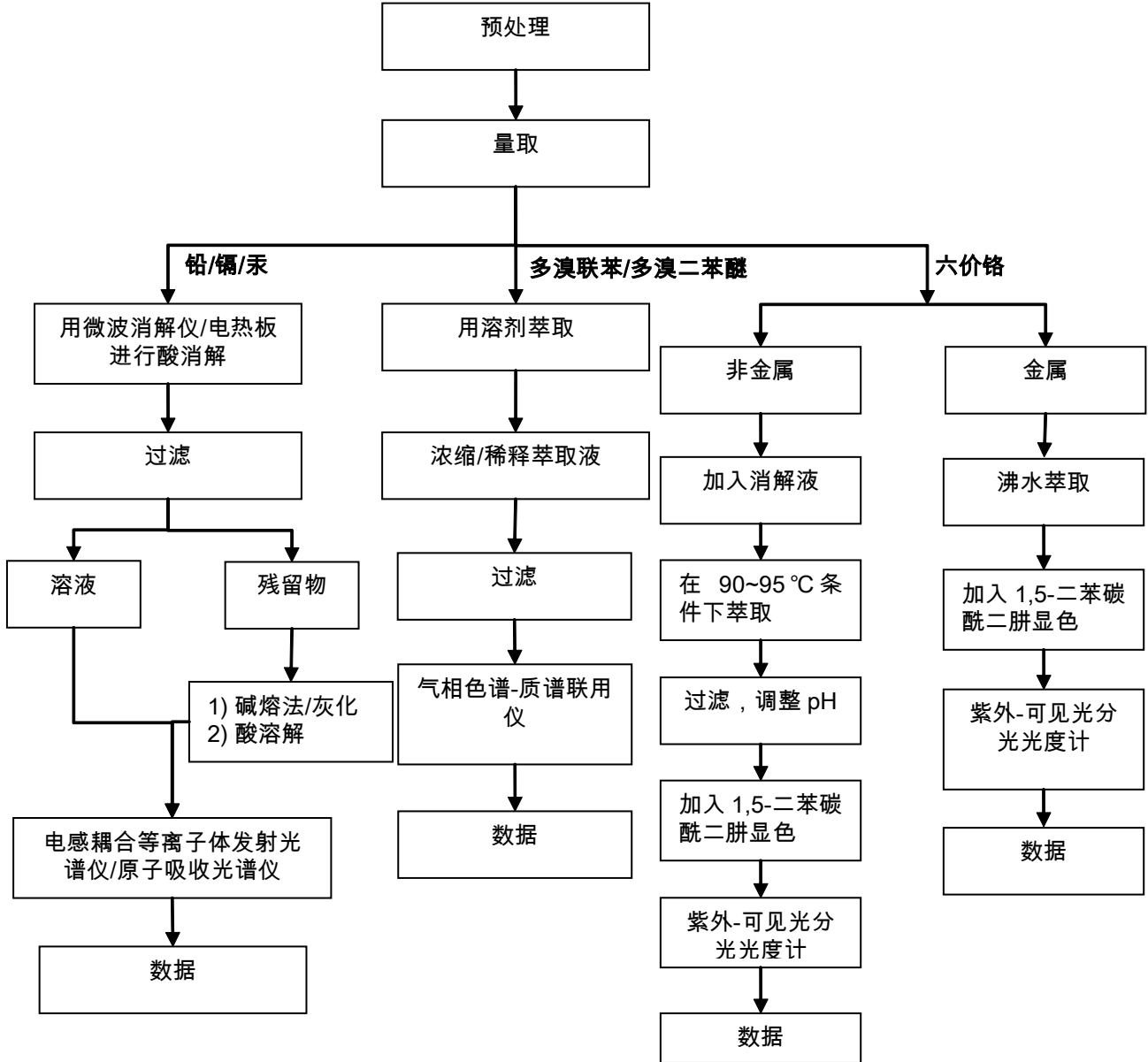
备注：“*”表示 0~9或A~Z中的任意一个



附件

Pb/Cd/Hg/Cr⁶⁺/PBBs/PBDEs 测试流程图

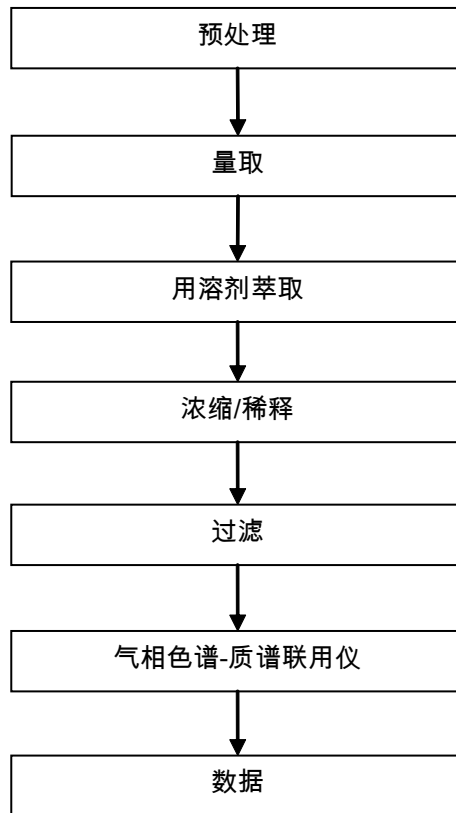
- 1) 分析人员：张梓路 / 胡香云
- 2) 项目负责人：汪丹 / 刘琼
- 3) 样品按照下述流程被完全消解 (六价铬和多溴联苯/多溴二苯醚测试除外)。



附件

Phthalates 测试流程图

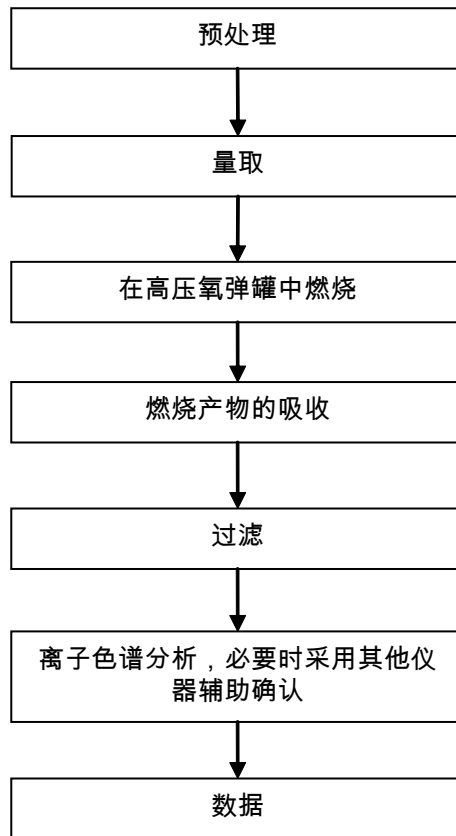
- 1) 分析人员: 胡香云
- 2) 项目负责人: 刘琼



附件

Halogen 测试流程图

- 1) 分析人员: 肖戈
- 2) 项目负责人: 汪丹



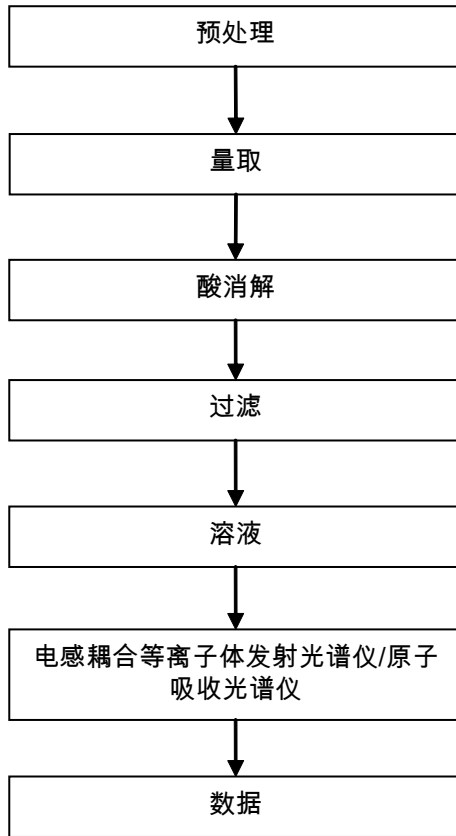
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附件

元素测试流程图

- 1) 分析人员: 张梓路
- 2) 项目负责人: 汪丹



样品照片:



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*** 报告完 ***