

测试报告

No. CANEC1623495004

日期: 2016年12月06日 第1页,共8页

深圳康姆科技有限公司

中国广东省深圳市宝安区石岩街道宝源社区料坑第一工业区2号厂房3 (1到3楼.5楼)

以下测试之样品是由申请者所提供及确认: IC 封装

SGS工作编号: CP16-072041 - SZ
型号: DIP
主要成份: 二氧化硅, 铜, 银, 锡, 环氧树脂
样品接收日期: 2016年11月29日
测试周期: 2016年11月29日 - 2016年12月06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

通标标准技术服务有限公司广州分公司
授权签名

张丽娜

Nana Zhang 张丽娜
批准签署人

备注: 本报告是编号为CANEC1623495003报告的中文版本。



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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	CAN16-234950.003	带棕色印字的黑色本体 (混合)
SN2	CAN16-234950.004	银色金属引脚

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

元素分析, 阻燃剂&邻苯二甲酸酯

- 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	单位	MDL	003
镉 (Cd)	mg/kg	2	ND
铅 (Pb)	mg/kg	2	ND
汞 (Hg)	mg/kg	2	ND
六价铬(Cr(VI))	mg/kg	2	ND
多溴联苯之和(PBBs)	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)	mg/kg	-	ND



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日期: 2016年12月06日 第3页,共8页

测试项目	单位	MDL	003
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
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)	mg/kg	50	ND
邻苯二甲酸丁苄酯(BBP)	mg/kg	50	ND
邻苯二甲酸二(2-乙基己基)酯(DEHP)	mg/kg	50	ND
邻苯二甲酸二异丁酯(DIBP)	mg/kg	50	ND

元素分析

- 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。

测试项目	单位	MDL	004
镉 (Cd)	mg/kg	2	ND
铅 (Pb)	mg/kg	2	9
汞 (Hg)	mg/kg	2	ND
六价铬(Cr(VI))▼	µg/cm ²	0.10	ND

备注：

- (1) ▼=a. 当六价铬的浓度高于0.13 µg/cm²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 µg/cm²)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 µg/cm²与0.13 µg/cm²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 14582:2007, 用IC分析。

测试项目	单位	MDL	003
氟 (F)	mg/kg	50	ND
氯 (Cl)	mg/kg	50	98
溴 (Br)	mg/kg	50	ND
碘 (I)	mg/kg	50	ND

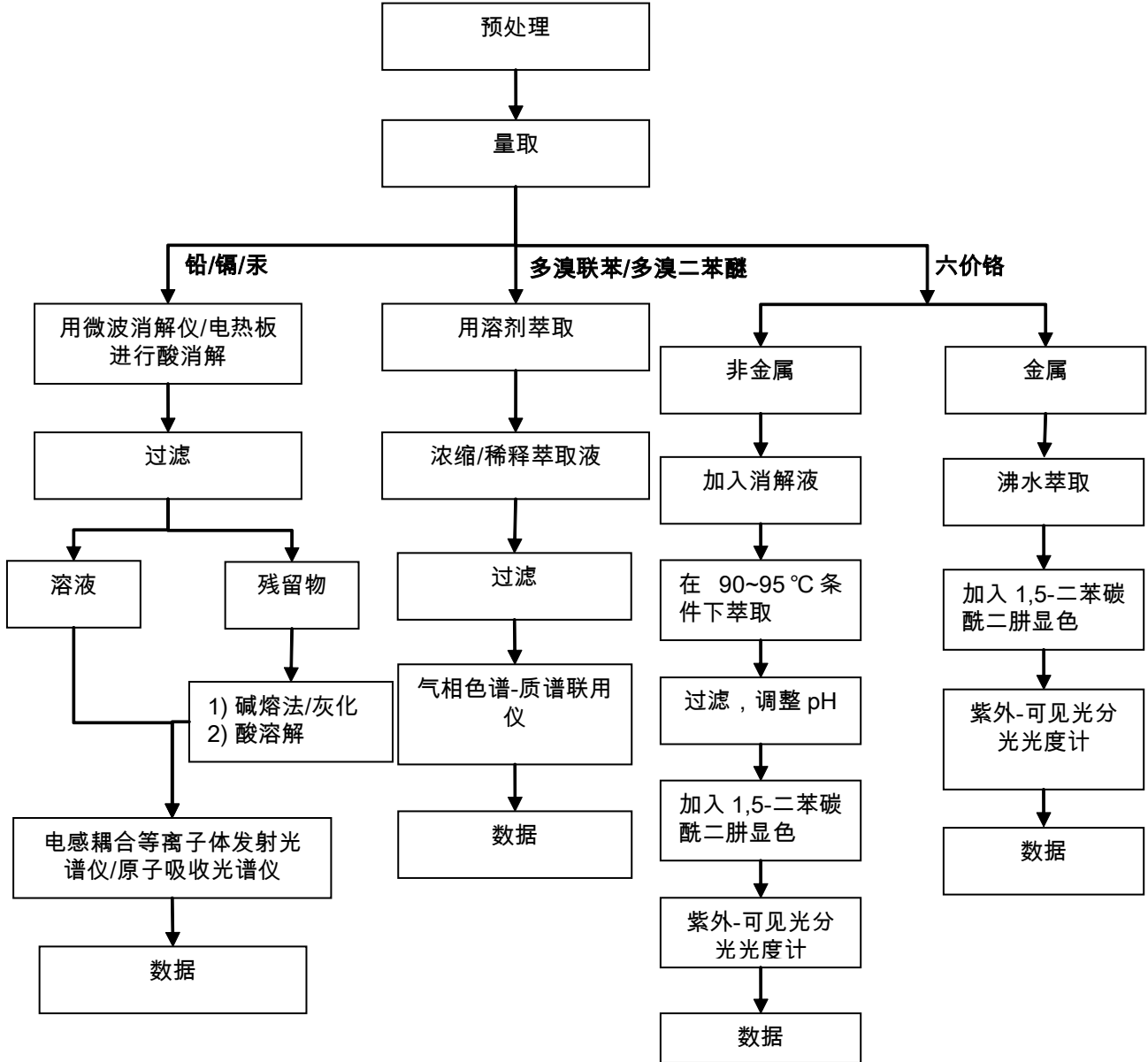
备注: 样品003的测试是基于申请人要求混合测试, 报告中的混合测试结果不代表其中个别单一材质的含量, 该测试数据仅供参考。



附件

Pb/Cd/Hg/Cr⁶⁺/PBBs/PBDEs 测试流程图

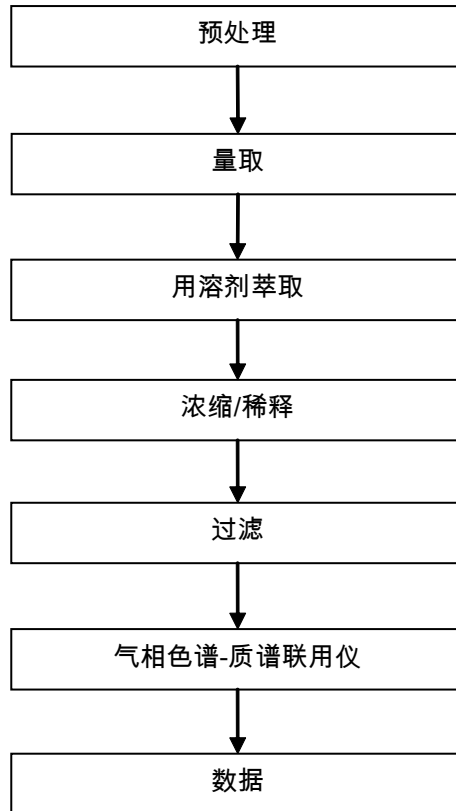
- 1) 分析人员：张梓路 / 胡香云
- 2) 项目负责人：汪丹 / 刘琼
- 3) 样品按照下述流程被完全消解 (六价铬和多溴联苯/多溴二苯醚测试除外)。



附件

Phthalates 测试流程图

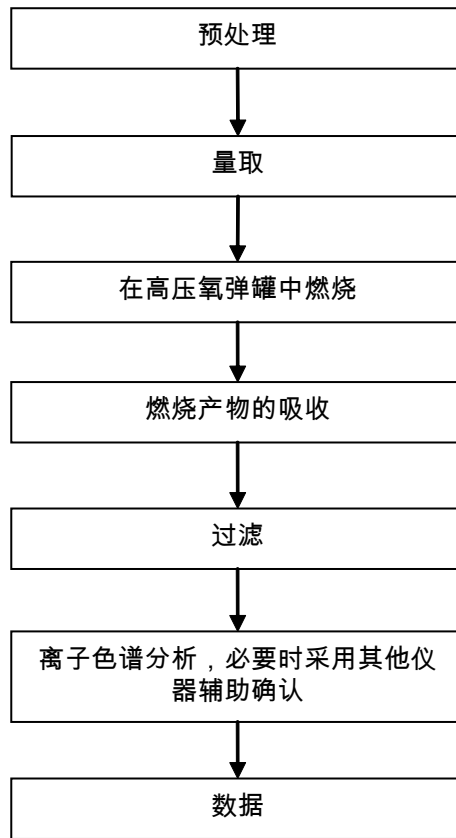
- 1) 分析人员: 胡香云
- 2) 项目负责人: 刘琼



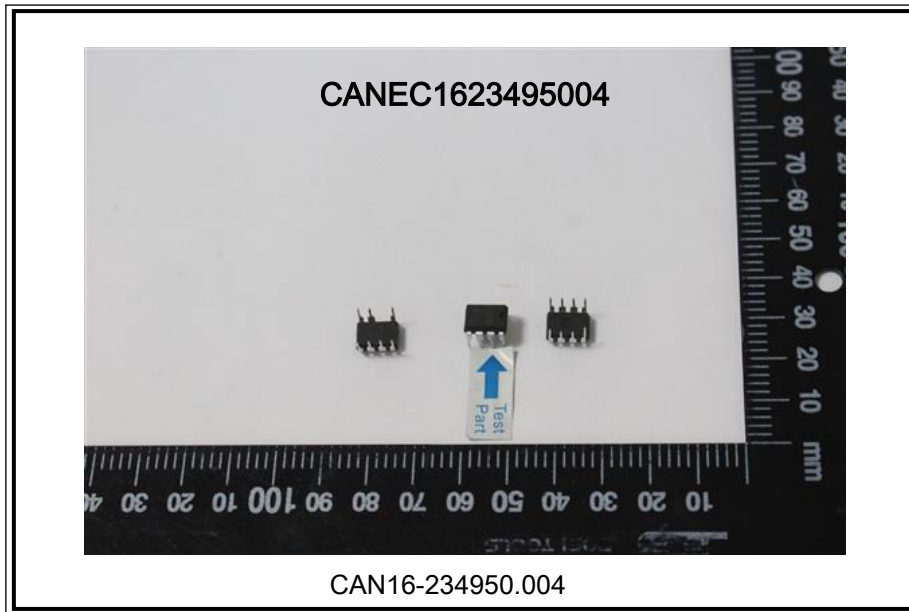
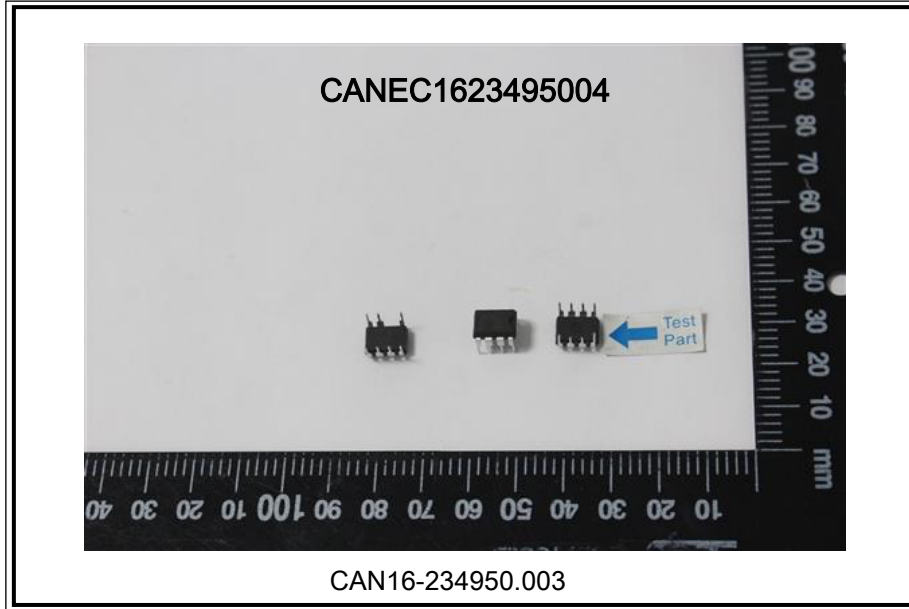
附件

Halogen 测试流程图

- 1) 分析人员: 肖戈
- 2) 项目负责人: 汪丹



样品照片:



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*** 报告完 ***



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