

测试报告 No. CANEC1601305402 日期: 2016年01月26日 第1页,共7页

深圳市柯瑞光电科技有限公司 深圳市宝安区福永镇凤凰第一工业区华源小区A栋8楼C

以下测试之样品是由申请者所提供及确认: LED020 灯珠

SGS工作编号: CP16-003736 - SZ

测试样品信息: LED 020

客户参考信息: 020W 020R 020B 020Y 020G 3014B 3014R 3014G

样品接收日期: 2016年01月20日

测试周期: 2016年01月20日 - 2016年01月26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-乙基已基)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。

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# 名登凤

Merry Lv吕爱凤 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 CAN16-013054.001 带黄色表层和银色金属边的白色本体

#### 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EN 14372:2004,用GC-MS测定邻苯二甲酸酯的含量

<u>测试项目</u>	限值	<u>单位</u>	<u>MDL</u>	<u>001</u>
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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<u>测试项目</u>	<u>限值</u>	<u>单位</u>	<u>MDL</u>	<u>001</u>	
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)	1,000	mg/kg	30	ND	
邻苯二甲酸丁苄酯(BBP)	1,000	mg/kg	30	ND	
邻苯二甲酸二(2-乙基己基)酯(DEHP)	1,000	mg/kg	30	ND	
邻苯二甲酸二异丁酯(DIBP)	1,000	mg/kg	30	ND	

### 备注:

(1) 最大允许极限值引用自RoHS指令(EU) 2015/863。

## 全氟辛酸(PFOA)和全氟辛烷磺酸(PFOS)

测试方法: 参考CEN/TS15968:2010方法,用 LC-MS分析。

<u>测试项目</u>	CAS NO.	<u>单位</u>	<u>MDL</u>	<u>001</u>
全氟辛酸(PFOA)	335-67-1	mg/kg	10	ND
全氟辛烷磺及其衍生物 (PFOS) <sup>^</sup>	-	mg/kg	10	ND

## 备注:

(1)全氟辛烷磺酸(PFOS)及其衍生物包含全氟辛烷磺酸(PFOS)、全氟辛基磺酰胺(PFOSA)、2-(N-乙基全氟辛基磺酰胺)乙醇(EtFOSE)、N-甲基全氟辛烷磺酰胺(MeFOSA)、N-乙基全氟辛烷磺酰胺(EtFOSA)和2-(N-甲基全氟辛基磺酰胺)乙醇(MeFOSE)。



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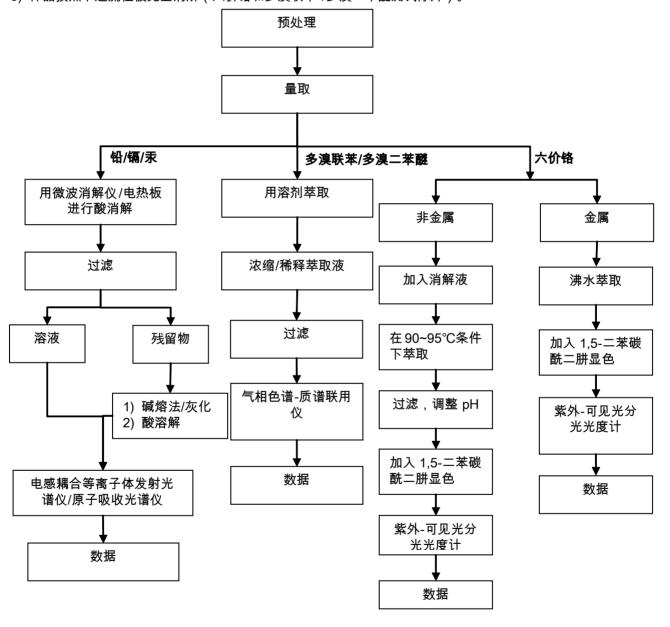
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## 附件

# Pb/Cd/Hg/Cr6+/PBBs/PBDEs 测试流程图

1) 分析人员: 肖戈 / 胡香云 2) 项目负责人: 汪丹 / 余晓璐

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)。





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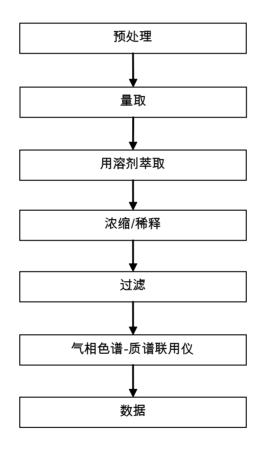
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# 附件

## Phthalates 测试流程图

1) 分析人员: 胡香云 2) 项目负责人: 余晓璐





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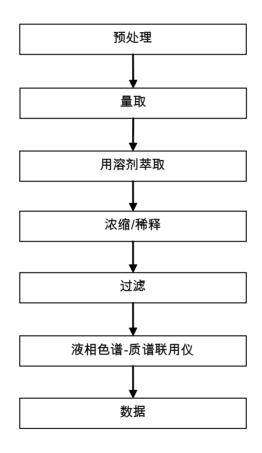
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# 附件

## PFOA / PFOS 测试流程图

1) 分析人员:王志红 2) 项目负责人:余晓璐





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