

测试报告 No. CANEC2116922826 日期: 2021年09月18日 第1页,共8页

广州市添鑫光电有限公司 广州市花都区花东镇秀塘村金谷南路**15**号之一

本报告取代测试报告CANEC2116922816

以下测试之样品是由申请者所提供及确认:高功率COB LED

SGS工作编号: CP21-049167 - GZ

样品接收日期: 2021年09月09日

测试周期: 2021年09月09日 - 2021年09月16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。

通标标准技术服务有限公司广州分公司 授权签名

美己盃

Zm guan关正孟 批准签署人





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测试报告 No. CANEC2116922826 日期: 2021年09月18日 第2页,共8页

测试结果:

测试样品描述:

| 样品编号 | SGS样品ID | 描述 |
|------|------------------|-------------|
| SN1 | CAN21-169228.029 | 黄色带白色软物料和芯片 |
| SN2 | CAN21-169228.030 | 银色/铜色片 |
| SN3 | CAN21-169228.031 | 白色膏体 |

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

测试方法: 参考IEC 62321-4:2013+A1:2017, 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.

| <u>测试项目</u> | 限值 | <u>单位</u> | <u>MDL</u> | <u>029</u> | <u>031</u> |
|----------------|-------|-----------|------------|------------|------------|
| 镉 (Cd) | 100 | mg/kg | 2 | ND | ND |
| 铅 (Pb) | 1,000 | mg/kg | 2 | ND | ND |
| 汞 (Hg) | 1,000 | mg/kg | 2 | ND | ND |
| 六价铬(Cr(VI)) | 1,000 | mg/kg | 8 | ND | ND |
| 多溴联苯之和(PBBs) | 1,000 | mg/kg | - | ND | ND |
| 一溴联苯 | - | mg/kg | 5 | ND | ND |
| 二溴联苯 | - | mg/kg | 5 | ND | ND |
| 三溴联苯 | - | mg/kg | 5 | ND | ND |
| 四溴联苯 | - | mg/kg | 5 | ND | ND |
| 五溴联苯 | - | mg/kg | 5 | ND | ND |
| 六溴联苯 | - | mg/kg | 5 | ND | ND |
| 七溴联苯 | - | mg/kg | 5 | ND | ND |
| 八溴联苯 | - | mg/kg | 5 | ND | ND |
| 九溴联苯 | - | mg/kg | 5 | ND | ND |
| 十溴联苯 | - | mg/kg | 5 | ND | ND |
| 多溴二苯醚之和(PBDEs) | 1,000 | mg/kg | - | ND | ND |
| 一溴二苯醚 | - | mg/kg | 5 | ND | ND |
| 二溴二苯醚 | - | mg/kg | 5 | ND | ND |
| 三溴二苯醚 | - | mg/kg | 5 | ND | ND |
| | | | | | |



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|-----------------------|-------------------|-----------|------------|-------------|------------|
| <u>测试项目</u> | <u>限值</u> | <u>单位</u> | <u>MDL</u> | <u>029</u> | <u>031</u> |
| 三溴二苯醚 | - | mg/kg | 5 | ND | ND |
| 四溴二苯醚 | - | mg/kg | 5 | ND | ND |
| 五溴二苯醚 | - | mg/kg | 5 | ND | ND |
| 六溴二苯醚 | - | mg/kg | 5 | ND | ND |
| 七溴二苯醚 | - | mg/kg | 5 | ND | ND |
| 八溴二苯醚 | - | mg/kg | 5 | ND | ND |
| 九溴二苯醚 | - | mg/kg | 5 | ND | ND |
| 十溴二苯醚 | - | mg/kg | 5 | ND | ND |
| 邻苯二甲酸二丁酯 (DBP) | 1,000 | mg/kg | 50 | ND | ND |
| 邻苯二甲酸丁苄酯(BBP) | 1,000 | mg/kg | 50 | ND | ND |
| 邻苯二甲酸二(2-乙基己基)酯(DEHP) | 1,000 | mg/kg | 50 | ND | ND |
| 邻苯二甲酸二异丁酯(DIBP) | 1,000 | mg/kg | 50 | ND | ND |

备注:

- (1)最大允许极限值引用自RoHS指令(EU) 2015/863。
- (2) 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:12586

(3) 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。

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

测试方法: 参考IEC 62321-4:2013+A1:2017, IEC62321-5:2013, IEC 62321-7-1:2015, 采用 ICP-OES 和 UV-Vis 进行分析.

| 测试项目 | 限值 | <u>单位</u> | <u>MDL</u> | <u>030</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))▼ | - | μg/cm² | 0.10 | ND |

备注:

- (1) 最大允许极限值引用自RoHS指令(EU) 2015/863。
- (2) 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:12586 37,25

- (3) ▼=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,



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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。

备注: 031所示结果为烘干样品总重量中的含量。

本报告更新了样品名称。

除非另有说明,此报告结果仅对测试的样品负责。本报告未经本公司书面许可,不可部分复制。 检测报告仅用于客户科研、教学、内部质量控制、产品研发等目的,仅供内部参考。



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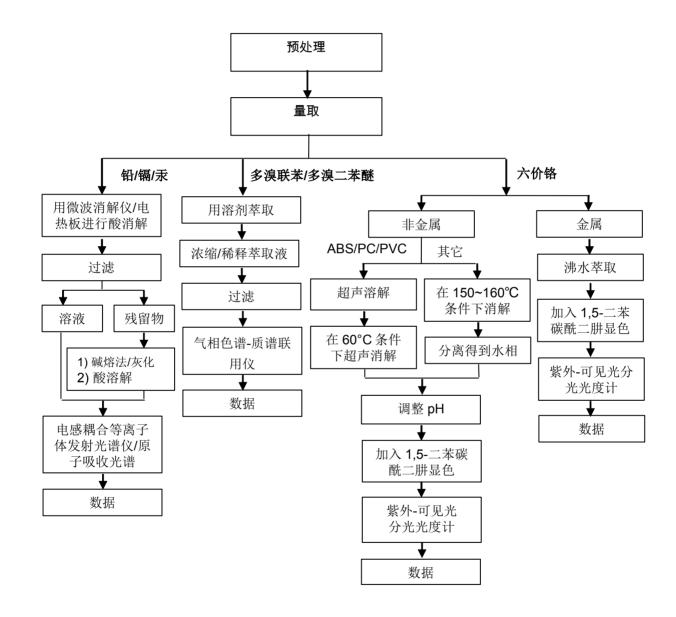
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附件

Pb/Cd/Hg/Cr6+/PBBs/PBDEs 测试流程图

1) 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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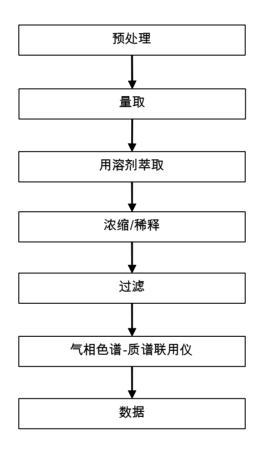


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附件

Phthalates 测试流程图





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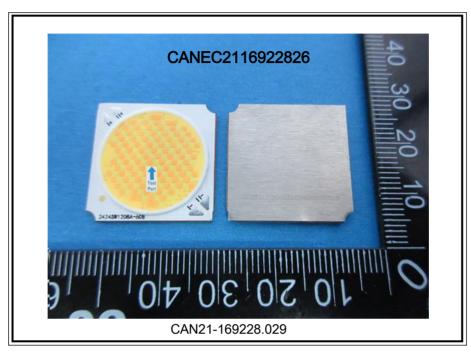
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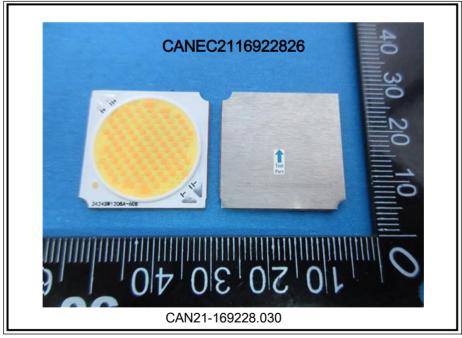


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