

No. SHAEC1708482602

日期: 2017年05月04日 第1页,共7页

上海尼赛拉传感器有限公司上海虹口区汶水东路888号

以下测试之样品是由申请者所提供及确认:光敏管

SGS工作编号: SP17-014850 - SH

客户参考信息: UI-301 、 UI-201 样品接收日期: 2017年04月28日

测试周期: 2017年04月28日 - 2017年05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)的测试结果不超过欧盟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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了源

Serena Wang王璟

批准签署人

本报告是编号为SHAEC1708482601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	SHA17-084826.001	透明塑料
SN2	SHA17-084826.002	银色金属

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 62321-7-2:2017, 用UV-Vis分析六价铬含量和/或者参考IEC

62321-5:2013,用ICP-OES测试总铬含量

(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

测试项目	限值	<u>单位</u>	<u>MDL</u>	<u>001</u>
镉(Cd)	100	mg/kg	2	ND
铅(Pb)	1000	mg/kg	2	ND
汞(Hg)	1000	mg/kg	2	ND
六价铬 (Cr(VI))	1000	mg/kg	8	ND
多溴联苯之和(PBBs)	1000	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)	1000	mg/kg	-	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>	
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	

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备注:

(1) 最大允许极限值引用自RoHS指令(EU) 2015/863。

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:125863

- (2) 检测的铬(Cr)含量是"ND",则六价铬(Cr(VI))含量也是"ND",不需要进行六价铬(Cr(VI))的确认性测试。
- (3) 若铬(Cr)含量超过六价铬(Cr(VI))方法检出限,需要进行六价铬(Cr(VI))的确认性测试。
- (4) 2015年6月4号发表在欧盟官方杂志(官方公报)上的RoHS指令(EU) 2015/863 附录II限值中还包括邻苯 二甲酸酯BBP,DBP,DEHP和DIBP。新的指令限制了电子电器产品的每一个均一材质中邻苯二甲酸酯含
- (5) 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。
- (6) DEHP, BBP, DBP 和 DIBP的限制不适用于2019年7月22日前投放市场的电缆及电子电气产品中用于维 修、重复利用、功能更新及容量提升的备用配件以及2021年7月22日前投放市场的医疗器械,包括体外医 疗器械,监控仪表,包括工业监测和控制仪器。
- (7) DEHP、BBP 和 DBP的限制不适用于玩具产品,因为No.1907/2006 附录XVII第51条已对玩具产品中 的DEHP、BBP 和 DBP含量进行了限制。

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AAS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

<u>测试项目</u>	<u>限值</u>	<u>单位</u>	<u>MDL</u>	<u>002</u>
镉 (Cd)	100	mg/kg	2	ND
铅(Pb)	1000	mg/kg	2	ND
汞 (Hg)	1000	mg/kg	2	ND



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测试报告 No. SHAEC1708482602 日期: 2017年05月04日 第4页,共7页

<u>测试项目</u> <u>限值</u> <u>单位</u> <u>MDL</u> <u>002</u> 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。

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

- (2) ▼ = 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。



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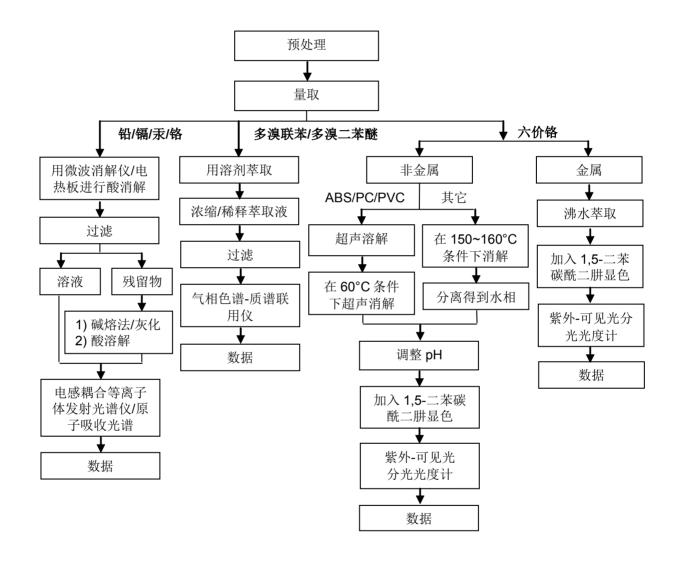
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附件

RoHS 测试流程图

- 1) 分析人员: 金叶/徐刚/李振/宋珂静
- 2) 项目负责人: 施青/黄婷/徐亮/王晓艳
- 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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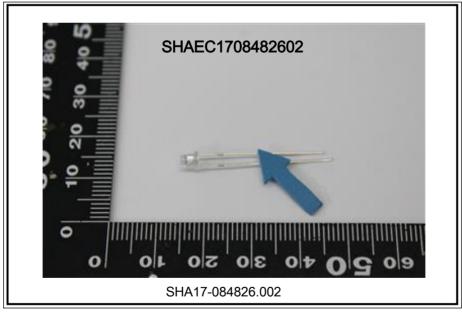


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样品照片:







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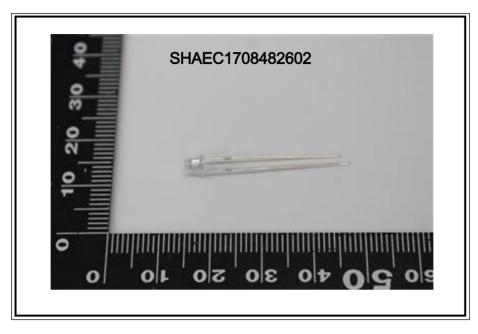
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