

No. SHAEC1702029604

日期: 2017年02月27日 第1页,共11页

上海尼赛拉传感器有限公司 汶水东路888号

以下测试之样品是由申请者所提供及确认: 热释电红外传感器

SGS工作编号: SP17-003439 - SH

样品接收日期: 2017年02月10日

测试周期: 2017年02月10日 - 2017年02月22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

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Marry Ma马广媛 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	SHA17-020296.001	银色金属带黑色固体(混合测*)
SN2	SHA17-020296.002	白色塑料带黑色固体(混合测*)
SN3	SHA17-020296.003	黑色固体带银色金属引脚
SN4	SHA17-020296.004	银灰色固体片
SN5	SHA17-020296.005	银色金属带黑色固体(混合测*)
SN6	SHA17-020296.006	红色膏体
SN7	SHA17-020296.007	灰色膏体
SN8	SHA17-020296.008	灰色膏体

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: (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/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 62321:2008, 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

测试项目	限值	<u>单位</u>	<u>MDL</u>	<u>001</u>	<u>002</u>	<u>003</u>
镉(Cd)	100	mg/kg	2	ND	ND	ND
铅(Pb)	1000	mg/kg	2	ND	ND	ND
汞(Hg)	1000	mg/kg	2	ND	ND	ND
六价铬(CrVI)	1000	mg/kg	2	ND	ND	ND
多溴联苯之和(PBBs)	1000	mg/kg	-	ND	ND	ND
一溴联苯	-	mg/kg	5	ND	ND	ND
二溴联苯	-	mg/kg	5	ND	ND	ND
三溴联苯	-	mg/kg	5	ND	ND	ND
四溴联苯	-	mg/kg	5	ND	ND	ND
五溴联苯	-	mg/kg	5	ND	ND	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> <u>002</u> <u>00</u>	3
六溴联苯 - mg/kg 5 ND ND NI)
七溴联苯 - mg/kg 5 ND ND NI)
八溴联苯 - mg/kg 5 ND ND NI)
九溴联苯 - mg/kg 5 ND ND NI)
十溴联苯 - mg/kg 5 ND ND NI)
多溴二苯醚之和(PBDEs) 1000 mg/kg - ND ND NI)
一溴二苯醚 - mg/kg 5 ND ND NI)
二溴二苯醚 - mg/kg 5 ND ND NI)
三溴二苯醚 - mg/kg 5 ND ND NI)
四溴二苯醚 - mg/kg 5 ND ND NI)
五溴二苯醚 - mg/kg 5 ND ND NI)
六溴二苯醚 - mg/kg 5 ND ND NI)
七溴二苯醚 - mg/kg 5 ND ND NI)
八溴二苯醚 - mg/kg 5 ND ND NI)
九溴二苯醚 - mg/kg 5 ND ND NI)
十溴二苯醚 - mg/kg 5 ND ND NI)
<u>测试项目</u> <u>限值</u> <u>单位</u> <u>MDL</u> <u>004</u> <u>005</u> <u>00</u>	<u> </u>
镉(Cd) 100 mg/kg 2 ND ND NI)
铅(Pb) 1000 mg/kg 2 579232▲** ND NI)
汞(Hg) 1000 mg/kg 2 ND ND NI)
六价铬(CrVI) 1000 mg/kg 2 ND ND NI)
多溴联苯之和(PBBs) 1000 mg/kg - ND ND NI)
一溴联苯 - mg/kg 5 ND ND NI)
二溴联苯 - mg/kg 5 ND ND NI)
三溴联苯 - mg/kg 5 ND ND NI)
四溴联苯 - mg/kg 5 ND ND NI)
五溴联苯 - mg/kg 5 ND ND NI)
六溴联苯 - mg/kg 5 ND ND NI	
七溴联苯 - mg/kg 5 ND ND NI)
八溴联苯 - mg/kg 5 ND ND NI	
九溴联苯 - mg/kg 5 ND ND NI)
十溴联苯 - mg/kg 5 ND ND NI)
多溴二苯醚之和(PBDEs) 1000 mg/kg - ND ND NI)
一溴二苯醚 - mg/kg 5 ND ND NI	
二溴二苯醚 - mg/kg 5 ND ND NI	
三溴二苯醚 - mg/kg 5 ND ND NI	
四溴二苯醚 - mg/kg 5 ND ND NI	
五溴二苯醚 - mg/kg 5 ND ND NI)



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测试报告	No. SHAEC1702029604		日期: 2017年02月27日			第4页,共11页
<u>测试项目</u>	<u>限值</u>	<u>单位</u>	<u>MDL</u>	<u>004</u>	<u>005</u>	<u>006</u>
六溴二苯醚	-	mg/kg	5	ND	ND	ND
七溴二苯醚	-	mg/kg	5	ND	ND	ND
八溴二苯醚	-	mg/kg	5	ND	ND	ND
九溴二苯醚	-	mg/kg	5	ND	ND	ND
十溴二苯醚	-	mg/kg	5	ND	ND	ND
<u>测试项目</u>	<u>限值</u>	<u>单位</u>	<u>MDL</u>	<u>007</u>	<u>008</u>	
镉(Cd)	100	mg/kg	2	ND	ND	
铅(Pb)	1000	mg/kg	2	193	79	
汞(Hg)	1000	mg/kg	2	ND	ND	
六价铬(CrVI)	1000	mg/kg	2	ND	ND	
多溴联苯之和(PBBs)	1000	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)	1000	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	
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	

备注:

- (1) 最大允许极限值引用自RoHS指令(EU) 2015/863。
- (2) 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 量不得超过0.1%。



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- (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。
- (4) 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。
- (5) 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。
- (6) ▲根据客户提供的声明,编号004中的铅(Pb)被欧盟RoHS指令2011/65/EU豁免,相应豁免条文(请以英 文原文为准) |ANNEX || 7(c)-||: 电子电气元件中玻璃或陶瓷材料(电容中陶瓷介质除外)所含的铅,如压电 设备、玻璃或陶瓷基复合元件。
- (7) **测试结果仅供参考

备注:

- (1)*样品基于申请人要求为混合测试。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
- (2) 样品006-008 所示结果为湿样品总重量中的含量



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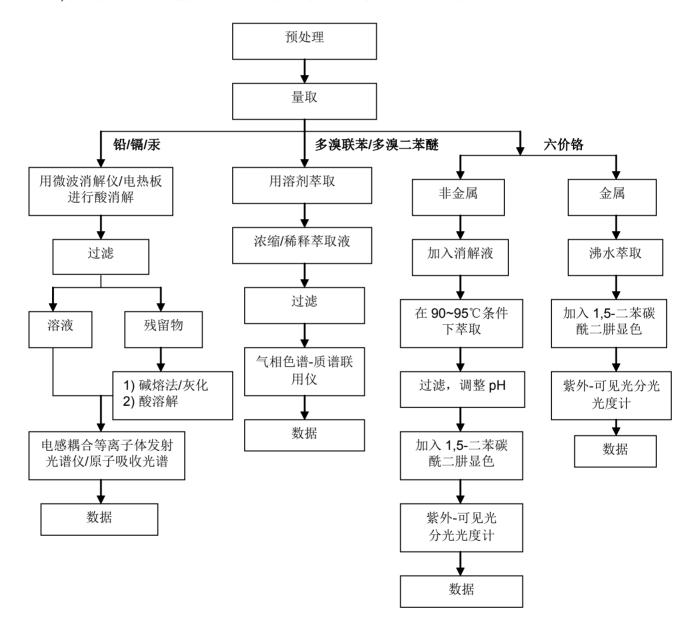
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附件

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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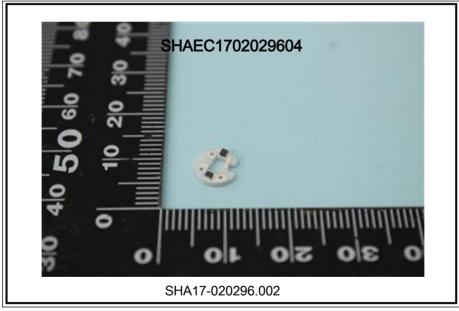


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样品照片:







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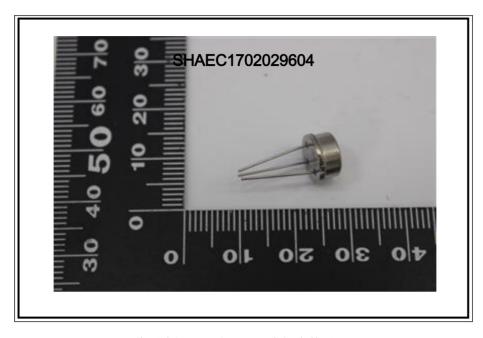
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