

验证报告

No. CKGEC2100433802

日期: 2021年07月09日 第1页,共42页

四川蓝景光电技术有限责任公司

成都市双流县西南航空港经济开发区空港二路二段1000号

样品名称: LED 长条
 SGS工作编号: 21856215 - CQ
 测试基本型号: ABS300-0610
 客户参考信息: ABS-XXX
 样品接收日期: 2021年06月16日
 验证周期: 2021年06月16日 - 2021年07月07日
 验证要求: 参考欧盟RoHS指令2011/65/EU的修正指令2015/863/EU。
 验证方法: 请参见后续页。
 验证结果: 请参见后续页。
 验证结论: 依据对所提供样品的相关验证, 铅、汞、镉、六价铬、多溴联苯(PBBs)、多溴二苯醚(PBDEs) 和邻苯二甲酸酯(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-乙基己基)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修正指令2015/863/EU的限值要求。

通标标准技术服务有限公司重庆分公司
 授权签名

胡小国

Gavin Hu 胡小国
 批准签署人

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验证报告

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日期: 2021年07月09日 第2页,共42页

验证方法:

1. 参考IEC 62321-2:2013, 拆分申请者提供的成品, 并评估样品。
2. 参考IEC 62321-1: 2013, 仅对本报告照片中标识的样品进行了下列测试分析。
 - (1) 参考IEC 62321-3-1: 2013, 用X射线荧光分析仪器进行筛选。
 - (2) 湿法化学测试方法:
 - a. 参考IEC62321-5:2013, 用ICP-OES测定镉的含量。
 - b. 参考IEC62321-5:2013, 用ICP-OES测定铅的含量。
 - c. 参考IEC 62321-4:2013+A1:2017, 用ICP-OES测定汞的含量。
 - d. 参考IEC 62321-7-1:2015, IEC 62321-7-2:2017 和ISO17075-1:2017, 用紫外-可见分光光度计比色法测定六价格的含量。
 - e. 参考IEC62321-6:2015, 用GC-MS测定PBBs(多溴联苯)和PBDEs(多溴二苯醚)的含量。
3. 参考IEC 62321-8:2017, 用GC-MS测定邻苯二甲酸酯的含量。



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No. CKGEC2100433802

日期: 2021年07月09日 第3页,共42页

根据物料风险评估的结果, 验证送测样品中的以下材料。

样品编号	样品描述	限用物质	EDXRF 筛分结果 ⁽¹⁾	PHTH筛分结果 ⁽²⁾	化学测试结果 ⁽³⁾ (mg/kg)	EU RoHS 结论	样品提交/再次提交日期
1	浅彩色金属螺丝	Pb Cd Hg Cr(VI)▼ PBBs PBDEs DBP BBP DEHP DIBP	BL BL BL IN --- --- --- --- --- ---	--- --- --- --- --- --- --- --- --- ---	--- --- --- ND --- --- --- --- --- ---	符合 符合 符合 符合 --- --- --- --- --- ---	16 Jun 2021
2	带彩色印字的白色粘性塑料片	Pb Cd Hg Cr(VI)▼ PBBs PBDEs DBP BBP DEHP DIBP	BL BL BL BL BL BL --- --- --- ---	--- --- --- --- --- --- BL BL BL BL	--- --- --- --- --- --- --- --- --- ---	符合 符合 符合 符合 符合 符合 符合 符合 符合 符合	16 Jun 2021
3	透明塑料部件	Pb Cd Hg Cr(VI)▼ PBBs PBDEs DBP	BL BL BL BL BL BL ---	--- --- --- --- --- --- BL	--- --- --- --- --- --- ---	符合 符合 符合 符合 符合 符合 符合	16 Jun 2021



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No. CKGEC2100433802

日期: 2021年07月09日 第4页,共42页

样品编号	样品描述	限用物质	EDXRF 筛分结果 ⁽¹⁾	PHTH筛分结果 ⁽²⁾	化学测试结果 ⁽³⁾ (mg/kg)	EU RoHS 结论	样品提交/再次提交日期
		BBP	---	BL	---	符合	
		DEHP	---	BL	---	符合	
		DIBP	---	BL	---	符合	
4	银色金属部件	Pb	BL	---	---	符合	16 Jun 2021
		Cd	BL	---	---	符合	
		Hg	BL	---	---	符合	
		Cr(VI)▼	BL	---	---	符合	
		PBBs	---	---	---	---	
		PBDEs	---	---	---	---	
		DBP	---	---	---	---	
		BBP	---	---	---	---	
		DEHP	---	---	---	---	
		DIBP	---	---	---	---	
5	灰色塑料部件	Pb	BL	---	---	符合	16 Jun 2021
		Cd	BL	---	---	符合	
		Hg	BL	---	---	符合	
		Cr(VI)▼	BL	---	---	符合	
		PBBs	IN	---	ND	符合	
		PBDEs	IN	---	ND	符合	
		DBP	---	BL	---	符合	
		BBP	---	BL	---	符合	
		DEHP	---	BL	---	符合	
		DIBP	---	BL	---	符合	



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验证报告

No. CKGEC2100433802

日期: 2021年07月09日 第5页,共42页

样品编号	样品描述	限用物质	EDXRF 筛分结果 ⁽¹⁾	PHTH筛分结果 ⁽²⁾	化学测试结果 ⁽³⁾ (mg/kg)	EU RoHS 结论	样品提交/再次提交日期
6	灰色塑料部件	Pb	BL	---	---	符合	16 Jun 2021
		Cd	BL	---	---	符合	
		Hg	BL	---	---	符合	
		Cr(VI)▼	BL	---	---	符合	
		PBBs	IN	---	ND	符合	
		PBDEs	IN	---	ND	符合	
		DBP	---	BL	---	符合	
		BBP	---	BL	---	符合	
		DEHP	---	BL	---	符合	
		DIBP	---	BL	---	符合	
7	彩色金属螺丝	Pb	BL	---	---	符合	16 Jun 2021
		Cd	BL	---	---	符合	
		Hg	BL	---	---	符合	
		Cr(VI)▼	IN	---	ND	符合	
		PBBs	---	---	---	---	
		PBDEs	---	---	---	---	
		DBP	---	---	---	---	
		BBP	---	---	---	---	
		DEHP	---	---	---	---	
		DIBP	---	---	---	---	
8	黑色塑料管	Pb	BL	---	---	符合	16 Jun 2021
		Cd	BL	---	---	符合	
		Hg	BL	---	---	符合	
		Cr(VI)▼	BL	---	---	符合	
		PBBs	BL	---	---	符合	
		PBDEs	BL	---	---	符合	
		DBP	---	BL	---	符合	



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No. CKGEC2100433802

日期: 2021年07月09日 第6页,共42页

样品编号	样品描述	限用物质	EDXRF 筛分结果 ⁽¹⁾	PHTH筛分结果 ⁽²⁾	化学测试结果 ⁽³⁾ (mg/kg)	EU RoHS 结论	样品提交/再次提交日期
		BBP	---	BL	---	符合	
		DEHP	---	BL	---	符合	
		DIBP	---	BL	---	符合	
9	透明塑料部件	Pb	BL	---	---	符合	16 Jun 2021
		Cd	BL	---	---	符合	
		Hg	BL	---	---	符合	
		Cr(VI)▼	BL	---	---	符合	
		PBBs	BL	---	---	符合	
		PBDEs	BL	---	---	符合	
		DBP	---	BL	---	符合	
		BBP	---	BL	---	符合	
		DEHP	---	BL	---	符合	
		DIBP	---	BL	---	符合	
10	黑色塑料绝缘线皮	Pb	BL	---	---	符合	16 Jun 2021
		Cd	BL	---	---	符合	
		Hg	BL	---	---	符合	
		Cr(VI)▼	BL	---	---	符合	
		PBBs	BL	---	---	符合	
		PBDEs	BL	---	---	符合	
		DBP	---	BL	---	符合	
		BBP	---	BL	---	符合	
		DEHP	---	BL	---	符合	
		DIBP	---	BL	---	符合	



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No. CKGEC2100433802

日期: 2021年07月09日 第7页,共42页

样品编号	样品描述	限用物质	EDXRF 筛分结果 ⁽¹⁾	PHTH筛分结果 ⁽²⁾	化学测试结果 ⁽³⁾ (mg/kg)	EU RoHS 结论	样品提交/再次提交日期
11	银色金属螺丝	Pb Cd Hg Cr(VI)▼ PBBs PBDEs DBP BBP DEHP DIBP	BL BL BL BL --- --- --- --- --- ---	--- --- --- --- --- --- --- --- --- ---	--- --- --- --- --- --- --- --- --- ---	符合 符合 符合 符合 --- --- --- --- --- ---	16 Jun 2021
12	银色金属环	Pb Cd Hg Cr(VI)▼ PBBs PBDEs DBP BBP DEHP DIBP	BL BL BL IN --- --- --- --- --- ---	--- --- --- --- --- --- --- --- --- ---	--- --- --- ND --- --- --- --- --- ---	符合 符合 符合 符合 --- --- --- --- --- ---	16 Jun 2021
13	银色金属部件	Pb Cd Hg Cr(VI)▼ PBBs PBDEs DBP	OL BL BL BL --- --- ---	--- --- --- --- --- --- ---	30128▲ --- --- --- --- --- ---	符合 符合 符合 符合 --- --- ---	16 Jun 2021



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日期: 2021年07月09日 第8页,共42页

样品编号	样品描述	限用物质	EDXRF 筛分结果 ⁽¹⁾	PHTH筛分结果 ⁽²⁾	化学测试结果 ⁽³⁾ (mg/kg)	EU RoHS 结论	样品提交/再次提交日期
		BBP	---	---	---	---	
		DEHP	---	---	---	---	
		DIBP	---	---	---	---	
14	银色金属部件	Pb	BL	---	---	符合	16 Jun 2021
		Cd	BL	---	---	符合	
		Hg	BL	---	---	符合	
		Cr(VI)▼	BL	---	---	符合	
		PBBs	---	---	---	---	
		PBDEs	---	---	---	---	
		DBP	---	---	---	---	
		BBP	---	---	---	---	
		DEHP	---	---	---	---	
		DIBP	---	---	---	---	
15	银色金属环	Pb	BL	---	---	符合	16 Jun 2021
		Cd	BL	---	---	符合	
		Hg	BL	---	---	符合	
		Cr(VI)▼	BL	---	---	符合	
		PBBs	---	---	---	---	
		PBDEs	---	---	---	---	
		DBP	---	---	---	---	
		BBP	---	---	---	---	
		DEHP	---	---	---	---	
		DIBP	---	---	---	---	



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日期: 2021年07月09日 第9页,共42页

样品编号	样品描述	限用物质	EDXRF 筛分结果 ⁽¹⁾	PHTH筛分结果 ⁽²⁾	化学测试结果 ⁽³⁾ (mg/kg)	EU RoHS 结论	样品提交/再次提交日期
16	银色金属环	Pb Cd Hg Cr(VI)▼ PBBs PBDEs DBP BBP DEHP DIBP	BL BL BL BL --- --- --- --- --- ---	--- --- --- --- --- --- --- --- --- ---	--- --- --- --- --- --- --- --- --- ---	符合 符合 符合 符合 --- --- --- --- --- ---	16 Jun 2021
17	银色金属焊锡	Pb Cd Hg Cr(VI)▼ PBBs PBDEs DBP BBP DEHP DIBP	BL BL BL BL --- --- --- --- --- ---	--- --- --- --- --- --- --- --- --- ---	--- --- --- --- --- --- --- --- --- ---	符合 符合 符合 符合 --- --- --- --- --- ---	16 Jun 2021 05 Jul 2021
18	黄色 透明物料	Pb Cd Hg Cr(VI)▼ PBBs PBDEs DBP	BL BL BL BL BL BL ---	--- --- --- --- --- --- BL	--- --- --- --- --- --- ---	符合 符合 符合 符合 符合 符合 符合	16 Jun 2021



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t (86-23) 6311 0882 sgs.china@sgs.com

验证报告

No. CKGEC2100433802

日期: 2021年07月09日 第10页,共42页

样品编号	样品描述	限用物质	EDXRF 筛分结果 ⁽¹⁾	PHTH筛分结果 ⁽²⁾	化学测试结果 ⁽³⁾ (mg/kg)	EU RoHS 结论	样品提交/再次提交日期
		BBP	---	BL	---	符合	
		DEHP	---	BL	---	符合	
		DIBP	---	BL	---	符合	
19	白色物料	Pb	BL	---	---	符合	16 Jun 2021
		Cd	BL	---	---	符合	
		Hg	BL	---	---	符合	
		Cr(VI)▼	BL	---	---	符合	
		PBBs	BL	---	---	符合	
		PBDEs	BL	---	---	符合	
		DBP	---	BL	---	符合	
		BBP	---	BL	---	符合	
		DEHP	---	BL	---	符合	
		DIBP	---	BL	---	符合	
20	银色金属线	Pb	BL	---	---	符合	16 Jun 2021
		Cd	BL	---	---	符合	
		Hg	BL	---	---	符合	
		Cr(VI)▼	BL	---	---	符合	
		PBBs	---	---	---	---	
		PBDEs	---	---	---	---	
		DBP	---	---	---	---	
		BBP	---	---	---	---	
		DEHP	---	---	---	---	
		DIBP	---	---	---	---	



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验证报告

No. CKGEC2100433802

日期: 2021年07月09日 第11页,共42页

样品编号	样品描述	限用物质	EDXRF 筛分结果 ⁽¹⁾	PHTH筛分结果 ⁽²⁾	化学测试结果 ⁽³⁾ (mg/kg)	EU RoHS 结论	样品提交/再次提交日期
21	银色金属部件	Pb Cd Hg Cr(VI)▼ PBBs PBDEs DBP BBP DEHP DIBP	BL BL BL BL --- --- --- --- --- ---	--- --- --- --- --- --- --- --- --- ---	--- --- --- --- --- --- --- --- --- ---	符合 符合 符合 符合 --- --- --- --- --- ---	16 Jun 2021
22	白色涂层	Pb Cd Hg Cr(VI)▼ PBBs PBDEs DBP BBP DEHP DIBP	BL BL BL BL BL BL --- --- --- ---	--- --- --- --- --- --- BL BL BL BL	--- --- --- --- --- --- --- --- --- ---	符合 符合 符合 符合 符合 符合 符合 符合 符合 符合	16 Jun 2021
23	银色金属片	Pb Cd Hg Cr(VI)▼ PBBs PBDEs DBP	BL BL BL BL --- --- ---	--- --- --- --- --- --- ---	--- --- --- --- --- --- ---	符合 符合 符合 符合 --- --- ---	16 Jun 2021



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t (86-23) 6311 0882 sgs.china@sgs.com

验证报告

No. CKGEC2100433802

日期: 2021年07月09日 第12页,共42页

样品编号	样品描述	限用物质	EDXRF 筛分结果 ⁽¹⁾	PHTH筛分结果 ⁽²⁾	化学测试结果 ⁽³⁾ (mg/kg)	EU RoHS 结论	样品提交/再次提交日期
		BBP	---	---	---	---	
		DEHP	---	---	---	---	
		DIBP	---	---	---	---	
24	半透明塑料壳	Pb	BL	---	---	符合	16 Jun 2021
		Cd	BL	---	---	符合	
		Hg	BL	---	---	符合	
		Cr(VI)▼	BL	---	---	符合	
		PBBs	BL	---	---	符合	
		PBDEs	BL	---	---	符合	
		DBP	---	BL	---	符合	
		BBP	---	BL	---	符合	
		DEHP	---	BL	---	符合	
		DIBP	---	BL	---	符合	
25	银色金属部件	Pb	BL	---	---	符合	16 Jun 2021
		Cd	BL	---	---	符合	
		Hg	BL	---	---	符合	
		Cr(VI)▼	BL	---	---	符合	
		PBBs	---	---	---	---	
		PBDEs	---	---	---	---	
		DBP	---	---	---	---	
		BBP	---	---	---	---	
		DEHP	---	---	---	---	
		DIBP	---	---	---	---	



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t (86-23) 6311 0882 sgs.china@sgs.com

验证报告

No. CKGEC2100433802

日期: 2021年07月09日 第13页,共42页

样品编号	样品描述	限用物质	EDXRF 筛分结果 ⁽¹⁾	PHTH筛分结果 ⁽²⁾	化学测试结果 ⁽³⁾ (mg/kg)	EU RoHS 结论	样品提交/再次提交日期
26	银色金属盖	Pb Cd Hg Cr(VI)▼ PBBs PBDEs DBP BBP DEHP DIBP	BL BL BL IN --- --- --- --- --- ---	--- --- --- --- --- --- --- --- --- ---	--- --- --- ND --- --- --- --- --- ---	符合 符合 符合 符合 --- --- --- --- --- ---	16 Jun 2021
27	灰色本体	Pb Cd Hg Cr(VI)▼ PBBs PBDEs DBP BBP DEHP DIBP	BL BL BL BL BL BL --- --- --- ---	--- --- --- --- --- --- BL BL BL BL	--- --- --- --- --- --- --- --- --- ---	符合 符合 符合 符合 符合 符合 符合 符合 符合 符合	16 Jun 2021
28	黑色磁铁	Pb Cd Hg Cr(VI)▼ PBBs PBDEs DBP	BL BL BL BL BL BL ---	--- --- --- --- --- --- BL	--- --- --- --- --- --- ---	符合 符合 符合 符合 符合 符合 符合	16 Jun 2021



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验证报告

No. CKGEC2100433802

日期: 2021年07月09日 第14页,共42页

样品编号	样品描述	限用物质	EDXRF 筛分结果 ⁽¹⁾	PHTH筛分结果 ⁽²⁾	化学测试结果 ⁽³⁾ (mg/kg)	EU RoHS 结论	样品提交/再次提交日期
		BBP	---	BL	---	符合	
		DEHP	---	BL	---	符合	
		DIBP	---	BL	---	符合	
29	蓝色本体	Pb	BL	---	---	符合	16 Jun 2021
		Cd	BL	---	---	符合	
		Hg	BL	---	---	符合	
		Cr(VI)▼	BL	---	---	符合	
		PBBs	BL	---	---	符合	
		PBDEs	BL	---	---	符合	
		DBP	---	BL	---	符合	
		BBP	---	BL	---	符合	
		DEHP	---	BL	---	符合	
		DIBP	---	BL	---	符合	
30	铜色漆包线	Pb	BL	---	---	符合	16 Jun 2021
		Cd	BL	---	---	符合	
		Hg	BL	---	---	符合	
		Cr(VI)▼	BL	---	---	符合	
		PBBs	BL	---	---	符合	
		PBDEs	BL	---	---	符合	
		DBP	---	BL	---	符合	
		BBP	---	BL	---	符合	
		DEHP	---	BL	---	符合	
		DIBP	---	BL	---	符合	



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验证报告

No. CKGEC2100433802

日期: 2021年07月09日 第15页,共42页

样品编号	样品描述	限用物质	EDXRF 筛分结果 ⁽¹⁾	PHTH筛分结果 ⁽²⁾	化学测试结果 ⁽³⁾ (mg/kg)	EU RoHS 结论	样品提交/再次提交日期
31	带黑色印字的黄色物料	Pb	BL	---	---	符合	16 Jun 2021
		Cd	BL	---	---	符合	
		Hg	BL	---	---	符合	
		Cr(VI)▼	BL	---	---	符合	
		PBBs	IN	---	ND	符合	
		PBDEs	IN	---	ND	符合	
		DBP	---	BL	---	符合	
		BBP	---	BL	---	符合	
		DEHP	---	BL	---	符合	
		DIBP	---	BL	---	符合	
32	浅黄色粘性塑料片	Pb	BL	---	---	符合	16 Jun 2021
		Cd	BL	---	---	符合	
		Hg	BL	---	---	符合	
		Cr(VI)▼	BL	---	---	符合	
		PBBs	BL	---	---	符合	
		PBDEs	BL	---	---	符合	
		DBP	---	BL	---	符合	
		BBP	---	BL	---	符合	
		DEHP	---	BL	---	符合	
		DIBP	---	BL	---	符合	
33	黑色塑料部件	Pb	BL	---	---	符合	16 Jun 2021
		Cd	BL	---	---	符合	
		Hg	BL	---	---	符合	
		Cr(VI)▼	BL	---	---	符合	
		PBBs	BL	---	---	符合	
		PBDEs	BL	---	---	符合	
		DBP	---	BL	---	符合	



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验证报告

No. CKGEC2100433802

日期: 2021年07月09日 第16页,共42页

样品编号	样品描述	限用物质	EDXRF 筛分结果 ⁽¹⁾	PHTH筛分结果 ⁽²⁾	化学测试结果 ⁽³⁾ (mg/kg)	EU RoHS 结论	样品提交/再次提交日期
		BBP	---	BL	---	符合	
		DEHP	---	BL	---	符合	
		DIBP	---	BL	---	符合	
34	银色金属针脚	Pb	BL	---	---	符合	16 Jun 2021
		Cd	BL	---	---	符合	
		Hg	BL	---	---	符合	
		Cr(VI)▼	BL	---	---	符合	
		PBBs	---	---	---	---	
		PBDEs	---	---	---	---	
		DBP	---	---	---	---	
		BBP	---	---	---	---	
		DEHP	---	---	---	---	
		DIBP	---	---	---	---	
35	黄色物料	Pb	BL	---	---	符合	16 Jun 2021
		Cd	BL	---	---	符合	
		Hg	BL	---	---	符合	
		Cr(VI)▼	BL	---	---	符合	
		PBBs	IN	---	ND	符合	
		PBDEs	IN	---	ND	符合	
		DBP	---	BL	---	符合	
		BBP	---	BL	---	符合	
		DEHP	---	BL	---	符合	
		DIBP	---	BL	---	符合	



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验证报告

No. CKGEC2100433802

日期: 2021年07月09日 第17页,共42页

样品编号	样品描述	限用物质	EDXRF 筛分结果 ⁽¹⁾	PHTH筛分结果 ⁽²⁾	化学测试结果 ⁽³⁾ (mg/kg)	EU RoHS 结论	样品提交/再次提交日期
36	灰色物料	Pb	BL	---	---	符合	16 Jun 2021
		Cd	BL	---	---	符合	
		Hg	BL	---	---	符合	
		Cr(VI)▼	BL	---	---	符合	
		PBBs	BL	---	---	符合	
		PBDEs	BL	---	---	符合	
		DBP	---	BL	---	符合	
		BBP	---	BL	---	符合	
		DEHP	---	BL	---	符合	
		DIBP	---	BL	---	符合	
37	银色金属针脚	Pb	BL	---	---	符合	16 Jun 2021
		Cd	BL	---	---	符合	
		Hg	BL	---	---	符合	
		Cr(VI)▼	BL	---	---	符合	
		PBBs	---	---	---	---	
		PBDEs	---	---	---	---	
		DBP	---	---	---	---	
		BBP	---	---	---	---	
		DEHP	---	---	---	---	
		DIBP	---	---	---	---	
38	银色金属针脚	Pb	BL	---	---	符合	16 Jun 2021
		Cd	BL	---	---	符合	
		Hg	BL	---	---	符合	
		Cr(VI)▼	BL	---	---	符合	
		PBBs	---	---	---	---	
		PBDEs	---	---	---	---	
		DBP	---	---	---	---	



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验证报告

No. CKGEC2100433802

日期: 2021年07月09日 第18页,共42页

样品编号	样品描述	限用物质	EDXRF 筛分结果 ⁽¹⁾	PHTH筛分结果 ⁽²⁾	化学测试结果 ⁽³⁾ (mg/kg)	EU RoHS 结论	样品提交/再次提交日期
		BBP	---	---	---	---	
		DEHP	---	---	---	---	
		DIBP	---	---	---	---	
39	黑色塑料管	Pb	BL	---	---	符合	16 Jun 2021
		Cd	BL	---	---	符合	
		Hg	BL	---	---	符合	
		Cr(VI)▼	BL	---	---	符合	
		PBBs	BL	---	---	符合	
		PBDEs	BL	---	---	符合	
		DBP	---	BL	---	符合	
		BBP	---	BL	---	符合	
		DEHP	---	BL	---	符合	
		DIBP	---	BL	---	符合	
40	红色物料	Pb	BL	---	---	符合	16 Jun 2021
		Cd	BL	---	---	符合	
		Hg	BL	---	---	符合	
		Cr(VI)▼	BL	---	---	符合	
		PBBs	BL	---	---	符合	
		PBDEs	BL	---	---	符合	
		DBP	---	BL	---	符合	
		BBP	---	BL	---	符合	
		DEHP	---	BL	---	符合	
		DIBP	---	BL	---	符合	



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t (86-23) 6311 0882 sgs.china@sgs.com

样品编号	样品描述	限用物质	EDXRF 筛分结果 ⁽¹⁾	PHTH筛分结果 ⁽²⁾	化学测试结果 ⁽³⁾ (mg/kg)	EU RoHS 结论	样品提交/再次提交日期
41	银色金属焊锡	Pb Cd Hg Cr(VI)▼ PBBs PBDEs DBP BBP DEHP DIBP	BL BL BL BL --- --- --- --- --- ---	--- --- --- --- --- --- --- --- --- ---	--- --- --- --- --- --- --- --- --- ---	符合 符合 符合 符合 --- --- --- --- --- ---	16 Jun 2021
42	黑色磁铁	Pb Cd Hg Cr(VI)▼ PBBs PBDEs DBP BBP DEHP DIBP	BL BL BL BL BL BL --- --- --- ---	--- --- --- --- --- --- BL BL BL BL	--- --- --- --- --- --- --- --- --- ---	符合 符合 符合 符合 符合 符合 符合 符合 符合 符合	16 Jun 2021
43	铜色漆包线	Pb Cd Hg Cr(VI)▼ PBBs PBDEs DBP	BL BL BL BL BL BL ---	--- --- --- --- --- --- BL	--- --- --- --- --- --- ---	符合 符合 符合 符合 符合 符合 符合	16 Jun 2021

验证报告

No. CKGEC2100433802

日期: 2021年07月09日 第20页,共42页

样品编号	样品描述	限用物质	EDXRF 筛分结果 ⁽¹⁾	PHTH筛分结果 ⁽²⁾	化学测试结果 ⁽³⁾ (mg/kg)	EU RoHS 结论	样品提交/再次提交日期
		BBP	---	BL	---	符合	
		DEHP	---	BL	---	符合	
		DIBP	---	BL	---	符合	
44	灰色物料	Pb	BL	---	---	符合	16 Jun 2021
		Cd	BL	---	---	符合	
		Hg	BL	---	---	符合	
		Cr(VI)▼	BL	---	---	符合	
		PBBs	BL	---	---	符合	
		PBDEs	BL	---	---	符合	
		DBP	---	BL	---	符合	
		BBP	---	BL	---	符合	
		DEHP	---	BL	---	符合	
		DIBP	---	BL	---	符合	
45	黑色本体	Pb	OL	---	32743▲	符合	16 Jun 2021
		Cd	BL	---	---	符合	
		Hg	BL	---	---	符合	
		Cr(VI)▼	BL	---	---	符合	
		PBBs	BL	---	---	符合	
		PBDEs	BL	---	---	符合	
		DBP	---	BL	---	符合	
		BBP	---	BL	---	符合	
		DEHP	---	BL	---	符合	
		DIBP	---	BL	---	符合	



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样品编号	样品描述	限用物质	EDXRF 筛分结果 ⁽¹⁾	PHTH筛分结果 ⁽²⁾	化学测试结果 ⁽³⁾ (mg/kg)	EU RoHS 结论	样品提交/再次提交日期
46	黑色本体	Pb	OL	---	20483▲	符合	16 Jun 2021
		Cd	BL	---	---	符合	
		Hg	BL	---	---	符合	
		Cr(VI)▼	BL	---	---	符合	
		PBBs	BL	---	---	符合	
		PBDEs	BL	---	---	符合	
		DBP	---	BL	---	符合	
		BBP	---	BL	---	符合	
		DEHP	---	BL	---	符合	
		DIBP	---	BL	---	符合	
47	带白色印字的黑色本体(贴片电阻)	Pb	IN	---	622	符合	16 Jun 2021
		Cd	BL	---	---	符合	
		Hg	BL	---	---	符合	
		Cr(VI)▼	BL	---	---	符合	
		PBBs	BL	---	---	符合	
		PBDEs	BL	---	---	符合	
		DBP	---	BL	---	符合	
		BBP	---	BL	---	符合	
		DEHP	---	BL	---	符合	
		DIBP	---	BL	---	符合	
48	带黑色印字的银色金属壳	Pb	BL	---	---	符合	16 Jun 2021
		Cd	BL	---	---	符合	
		Hg	BL	---	---	符合	
		Cr(VI)▼	BL	---	---	符合	
		PBBs	---	---	---	---	
		PBDEs	---	---	---	---	
		DBP	---	---	---	---	

验证报告

No. CKGEC2100433802

日期: 2021年07月09日 第22页,共42页

样品编号	样品描述	限用物质	EDXRF 筛分结果 ⁽¹⁾	PHTH筛分结果 ⁽²⁾	化学测试结果 ⁽³⁾ (mg/kg)	EU RoHS 结论	样品提交/再次提交日期
		BBP	---	---	---	---	
		DEHP	---	---	---	---	
		DIBP	---	---	---	---	
49	黑色本体	Pb	BL	---	---	符合	16 Jun 2021
		Cd	BL	---	---	符合	
		Hg	BL	---	---	符合	
		Cr(VI)▼	BL	---	---	符合	
		PBBs	BL	---	---	符合	
		PBDEs	BL	---	---	符合	
		DBP	---	BL	---	符合	
		BBP	---	BL	---	符合	
		DEHP	---	BL	---	符合	
		DIBP	---	BL	---	符合	
50	带白色印字的黑色本体(贴片电阻)	Pb	OL	---	869▲	符合	16 Jun 2021
		Cd	BL	---	---	符合	
		Hg	BL	---	---	符合	
		Cr(VI)▼	BL	---	---	符合	
		PBBs	BL	---	---	符合	
		PBDEs	BL	---	---	符合	
		DBP	---	BL	---	符合	
		BBP	---	BL	---	符合	
		DEHP	---	BL	---	符合	
		DIBP	---	BL	---	符合	



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样品编号	样品描述	限用物质	EDXRF 筛分结果 ⁽¹⁾	PHTH筛分结果 ⁽²⁾	化学测试结果 ⁽³⁾ (mg/kg)	EU RoHS 结论	样品提交/再次提交日期
51	黑色本体	Pb	OL	---	28433▲	符合	16 Jun 2021
		Cd	BL	---	---	符合	
		Hg	BL	---	---	符合	
		Cr(VI)▼	BL	---	---	符合	
		PBBs	BL	---	---	符合	
		PBDEs	BL	---	---	符合	
		DBP	---	BL	---	符合	
		BBP	---	BL	---	符合	
		DEHP	---	BL	---	符合	
		DIBP	---	BL	---	符合	
52	黑色塑料片	Pb	BL	---	---	符合	16 Jun 2021
		Cd	BL	---	---	符合	
		Hg	BL	---	---	符合	
		Cr(VI)▼	BL	---	---	符合	
		PBBs	BL	---	---	符合	
		PBDEs	BL	---	---	符合	
		DBP	---	BL	---	符合	
		BBP	---	BL	---	符合	
		DEHP	---	BL	---	符合	
		DIBP	---	BL	---	符合	
53	黑色橡胶部件	Pb	BL	---	---	符合	16 Jun 2021
		Cd	BL	---	---	符合	
		Hg	BL	---	---	符合	
		Cr(VI)▼	BL	---	---	符合	
		PBBs	BL	---	---	符合	
		PBDEs	BL	---	---	符合	
		DBP	---	BL	---	符合	

验证报告

No. CKGEC2100433802

日期: 2021年07月09日 第24页,共42页

样品编号	样品描述	限用物质	EDXRF 筛分结果 ⁽¹⁾	PHTH筛分结果 ⁽²⁾	化学测试结果 ⁽³⁾ (mg/kg)	EU RoHS 结论	样品提交/再次提交日期
		BBP	---	BL	---	符合	
		DEHP	---	BL	---	符合	
		DIBP	---	BL	---	符合	
54	银色金属针脚	Pb	BL	---	---	符合	16 Jun 2021
		Cd	BL	---	---	符合	
		Hg	BL	---	---	符合	
		Cr(VI)▼	BL	---	---	符合	
		PBBs	---	---	---	---	
		PBDEs	---	---	---	---	
		DBP	---	---	---	---	
		BBP	---	---	---	---	
		DEHP	---	---	---	---	
		DIBP	---	---	---	---	
55	米色物料	Pb	BL	---	---	符合	16 Jun 2021
		Cd	BL	---	---	符合	
		Hg	BL	---	---	符合	
		Cr(VI)▼	BL	---	---	符合	
		PBBs	BL	---	---	符合	
		PBDEs	BL	---	---	符合	
		DBP	---	BL	---	符合	
		BBP	---	BL	---	符合	
		DEHP	---	BL	---	符合	
		DIBP	---	BL	---	符合	



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No. CKGEC2100433802

日期: 2021年07月09日 第25页,共42页

样品编号	样品描述	限用物质	EDXRF 筛分结果 ⁽¹⁾	PHTH筛分结果 ⁽²⁾	化学测试结果 ⁽³⁾ (mg/kg)	EU RoHS 结论	样品提交/再次提交日期
56	深灰色物料	Pb Cd Hg Cr(VI)▼ PBBs PBDEs DBP BBP DEHP DIBP	BL BL BL BL BL BL --- --- --- ---	--- --- --- --- --- --- BL BL BL BL	--- --- --- --- --- --- --- --- --- ---	符合 符合 符合 符合 符合 符合 符合 符合 符合 符合	16 Jun 2021
57	灰色物料	Pb Cd Hg Cr(VI)▼ PBBs PBDEs DBP BBP DEHP DIBP	BL BL BL BL BL BL --- --- --- ---	--- --- --- --- --- --- BL BL BL BL	--- --- --- --- --- --- --- --- --- ---	符合 符合 符合 符合 符合 符合 符合 符合 符合 符合	16 Jun 2021
58	黑色本体	Pb Cd Hg Cr(VI)▼ PBBs PBDEs DBP	OL BL BL BL BL BL ---	--- --- --- --- --- --- BL	35757▲ --- --- --- --- --- ---	符合 符合 符合 符合 符合 符合 符合	16 Jun 2021



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No. CKGEC2100433802

日期: 2021年07月09日 第26页,共42页

样品编号	样品描述	限用物质	EDXRF 筛分结果 ⁽¹⁾	PHTH筛分结果 ⁽²⁾	化学测试结果 ⁽³⁾ (mg/kg)	EU RoHS 结论	样品提交/再次提交日期
		BBP	---	BL	---	符合	
		DEHP	---	BL	---	符合	
		DIBP	---	BL	---	符合	
59	黑色磁铁	Pb	BL	---	---	符合	16 Jun 2021
		Cd	BL	---	---	符合	
		Hg	BL	---	---	符合	
		Cr(VI)▼	BL	---	---	符合	
		PBBs	BL	---	---	符合	
		PBDEs	BL	---	---	符合	
		DBP	---	BL	---	符合	
		BBP	---	BL	---	符合	
		DEHP	---	BL	---	符合	
		DIBP	---	BL	---	符合	
60	棕色粘性塑料片	Pb	BL	---	---	符合	16 Jun 2021
		Cd	BL	---	---	符合	
		Hg	BL	---	---	符合	
		Cr(VI)▼	BL	---	---	符合	
		PBBs	BL	---	---	符合	
		PBDEs	BL	---	---	符合	
		DBP	---	BL	---	符合	
		BBP	---	BL	---	符合	
		DEHP	---	BL	---	符合	
		DIBP	---	BL	---	符合	



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验证报告

No. CKGEC2100433802

日期: 2021年07月09日 第27页,共42页

样品编号	样品描述	限用物质	EDXRF 筛分结果 ⁽¹⁾	PHTH筛分结果 ⁽²⁾	化学测试结果 ⁽³⁾ (mg/kg)	EU RoHS 结论	样品提交/再次提交日期
61	浅黄色本体	Pb Cd Hg Cr(VI)▼ PBBs PBDEs DBP BBP DEHP DIBP	BL BL BL BL BL BL --- --- --- ---	--- --- --- --- --- --- BL BL BL BL	--- --- --- --- --- --- --- --- --- ---	符合 符合 符合 符合 符合 符合 符合 符合 符合 符合	16 Jun 2021
62	银色金属针脚	Pb Cd Hg Cr(VI)▼ PBBs PBDEs DBP BBP DEHP DIBP	BL BL BL BL --- --- --- --- --- ---	--- --- --- --- --- --- --- --- --- ---	--- --- --- --- --- --- --- --- --- ---	符合 符合 符合 符合 --- --- --- --- --- ---	16 Jun 2021
63	带白色印字的棕色塑料表皮	Pb Cd Hg Cr(VI)▼ PBBs PBDEs DBP	BL BL BL BL BL BL ---	--- --- --- --- --- --- BL	--- --- --- --- --- --- ---	符合 符合 符合 符合 符合 符合 符合	16 Jun 2021



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日期: 2021年07月09日 第28页,共42页

样品编号	样品描述	限用物质	EDXRF 筛分结果 ⁽¹⁾	PHTH筛分结果 ⁽²⁾	化学测试结果 ⁽³⁾ (mg/kg)	EU RoHS 结论	样品提交/再次提交日期
		BBP	---	BL	---	符合	
		DEHP	---	BL	---	符合	
		DIBP	---	BL	---	符合	
64	深棕色粘性塑料片	Pb	BL	---	---	符合	16 Jun 2021
		Cd	BL	---	---	符合	
		Hg	BL	---	---	符合	
		Cr(VI)▼	BL	---	---	符合	
		PBBs	BL	---	---	符合	
		PBDEs	BL	---	---	符合	
		DBP	---	BL	---	符合	
		BBP	---	BL	---	符合	
		DEHP	---	BL	---	符合	
		DIBP	---	BL	---	符合	
65	黑色塑料部件	Pb	BL	---	---	符合	16 Jun 2021
		Cd	BL	---	---	符合	
		Hg	BL	---	---	符合	
		Cr(VI)▼	BL	---	---	符合	
		PBBs	BL	---	---	符合	
		PBDEs	BL	---	---	符合	
		DBP	---	BL	---	符合	
		BBP	---	BL	---	符合	
		DEHP	---	BL	---	符合	
		DIBP	---	BL	---	符合	



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t (86-23) 6311 0882 sgs.china@sgs.com

验证报告

No. CKGEC2100433802

日期: 2021年07月09日 第29页,共42页

样品编号	样品描述	限用物质	EDXRF 筛分结果 ⁽¹⁾	PHTH筛分结果 ⁽²⁾	化学测试结果 ⁽³⁾ (mg/kg)	EU RoHS 结论	样品提交/再次提交日期
66	铜色漆包线	Pb	BL	---	---	符合	16 Jun 2021
		Cd	BL	---	---	符合	
		Hg	BL	---	---	符合	
		Cr(VI)▼	BL	---	---	符合	
		PBBs	BL	---	---	符合	
		PBDEs	BL	---	---	符合	
		DBP	---	BL	---	符合	
		BBP	---	BL	---	符合	
		DEHP	---	BL	---	符合	
		DIBP	---	BL	---	符合	
67	铜色漆包线	Pb	BL	---	---	符合	16 Jun 2021
		Cd	BL	---	---	符合	
		Hg	BL	---	---	符合	
		Cr(VI)▼	BL	---	---	符合	
		PBBs	BL	---	---	符合	
		PBDEs	BL	---	---	符合	
		DBP	---	BL	---	符合	
		BBP	---	BL	---	符合	
		DEHP	---	BL	---	符合	
		DIBP	---	BL	---	符合	
68	银色金属壳	Pb	BL	---	---	符合	16 Jun 2021
		Cd	BL	---	---	符合	
		Hg	BL	---	---	符合	
		Cr(VI)▼	BL	---	---	符合	
		PBBs	---	---	---	---	
		PBDEs	---	---	---	---	
		DBP	---	---	---	---	



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t (86-23) 6311 0882 sgs.china@sgs.com

验证报告

No. CKGEC2100433802

日期: 2021年07月09日 第30页,共42页

样品编号	样品描述	限用物质	EDXRF 筛分结果 ⁽¹⁾	PHTH筛分结果 ⁽²⁾	化学测试结果 ⁽³⁾ (mg/kg)	EU RoHS 结论	样品提交/再次提交日期
		BBP	---	---	---	---	
		DEHP	---	---	---	---	
		DIBP	---	---	---	---	
69	黑色橡胶部件	Pb	BL	---	---	符合	16 Jun 2021
		Cd	BL	---	---	符合	
		Hg	BL	---	---	符合	
		Cr(VI)▼	BL	---	---	符合	
		PBBs	BL	---	---	符合	
		PBDEs	BL	---	---	符合	
		DBP	---	BL	---	符合	
		BBP	---	BL	---	符合	
		DEHP	---	BL	---	符合	
		DIBP	---	BL	---	符合	
70	透明塑料片	Pb	BL	---	---	符合	16 Jun 2021
		Cd	BL	---	---	符合	
		Hg	BL	---	---	符合	
		Cr(VI)▼	BL	---	---	符合	
		PBBs	BL	---	---	符合	
		PBDEs	BL	---	---	符合	
		DBP	---	BL	---	符合	
		BBP	---	BL	---	符合	
		DEHP	---	BL	---	符合	
		DIBP	---	BL	---	符合	



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验证报告

No. CKGEC2100433802

日期: 2021年07月09日 第31页,共42页

样品编号	样品描述	限用物质	EDXRF 筛分结果 ⁽¹⁾	PHTH筛分结果 ⁽²⁾	化学测试结果 ⁽³⁾ (mg/kg)	EU RoHS 结论	样品提交/再次提交日期
71	灰色物料	Pb	BL	---	---	符合	16 Jun 2021
		Cd	BL	---	---	符合	
		Hg	BL	---	---	符合	
		Cr(VI)▼	BL	---	---	符合	
		PBBs	BL	---	---	符合	
		PBDEs	BL	---	---	符合	
		DBP	---	BL	---	符合	
		BBP	---	BL	---	符合	
		DEHP	---	BL	---	符合	
		DIBP	---	BL	---	符合	
72	黑色物料	Pb	BL	---	---	符合	16 Jun 2021
		Cd	BL	---	---	符合	
		Hg	BL	---	---	符合	
		Cr(VI)▼	BL	---	---	符合	
		PBBs	BL	---	---	符合	
		PBDEs	BL	---	---	符合	
		DBP	---	BL	---	符合	
		BBP	---	BL	---	符合	
		DEHP	---	BL	---	符合	
		DIBP	---	BL	---	符合	
73	棕色物料	Pb	BL	---	---	符合	16 Jun 2021
		Cd	BL	---	---	符合	
		Hg	BL	---	---	符合	
		Cr(VI)▼	BL	---	---	符合	
		PBBs	BL	---	---	符合	
		PBDEs	BL	---	---	符合	
		DBP	---	BL	---	符合	



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验证报告

No. CKGEC2100433802

日期: 2021年07月09日 第32页,共42页

样品编号	样品描述	限用物质	EDXRF 筛分结果 ⁽¹⁾	PHTH筛分结果 ⁽²⁾	化学测试结果 ⁽³⁾ (mg/kg)	EU RoHS 结论	样品提交/再次提交日期
		BBP	---	BL	---	符合	
		DEHP	---	BL	---	符合	
		DIBP	---	BL	---	符合	



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验证报告

No. CKGEC2100433802

日期: 2021年07月09日 第33页,共42页

备注

(1) (a) 对于限用物质是 PBBs 和 PBDEs, 其结果显示的是总 Br 含量; 限用物质是 Cr(VI), 其结果显示的是总 Cr 含量。

(b) EDXRF 所得的测试结果只作初步筛选, 如果 EDXRF 结果超出 IEC62321-3-1:2013 所规定的警戒范围, 我们建议客户用更精确的化学测试方法测试样品, 如用 ICP-OES 测试 Cd, Pb, Hg; 用 UV-Vis 测试 Cr(VI); 用 GC-MS 测试 PBBs 和 PBDEs (单位: mg/kg)。

元素	聚合物	金属	复合材料
Cd	$BL \leq (70-3\sigma) < X < (130+3\sigma) \leq OL$	$BL \leq (70-3\sigma) < X < (130+3\sigma) \leq OL$	$LOD < X < (150+3\sigma) \leq OL$
Pb	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (500-3\sigma) < X < (1500+3\sigma) \leq OL$
Hg	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (500-3\sigma) < X < (1500+3\sigma) \leq OL$
Br	$BL \leq (300-3\sigma) < X$	--	$BL \leq (250-3\sigma) < X$
Cr	$BL \leq (700-3\sigma) < X$	$BL \leq (700-3\sigma) < X$	$BL \leq (500-3\sigma) < X$

(c) BL = 低于限度, OL = 超出限度, IN = 不确定, LOD = 检测限, -- = 未规定。

(d) 对于复合材料, EDXRF 筛选测试 RoHS 元素所得数据可能与样品中实际含量不同。

(2) PHTH 筛分结果只作初步筛选, 如果测试结果超出下表所规定的警戒范围, 我们采用更精确的化学测试方法测试样品, 用 GC-MS 测试 DBP、BBP、DEHP 和 DIBP (单位: mg/kg)。

化合物	DBP	BBP	DEHP	DIBP
聚合物	$BL \leq 600 < X$	$BL \leq 600 < X$	$BL \leq 600 < X$	$BL \leq 600 < X$

(3) (a) mg/kg = 0.0001%, MDL = 方法检测限, ND = 未检出(低于 MDL), --- = 未检测, - = 无清单编号

(b) 化学测试方法的表达单位和方法检测限

测试项目	Pb	Cd	Hg	DBP	BBP	DEHP	DIBP
单位	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
方法检测限	10	10	10	100	100	100	100

任何一种 PBBs 和 PBDEs 的方法检测限是 100 mg/kg;

聚合物, 复合材料和皮革样品中 Cr(VI)的方法检测限是 10 mg/kg。

金属样品中 Cr(VI)的方法检测限是 0.10 µg/cm²。

(c) ▼ = 金属样品中

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。

(4) RoHS 指令中限制物质及均质材料中最大允许浓度值: Cd: 0.01%, Pb /Hg /Cr(VI) /PBBs /PBDEs /DEHP /DBP /BBP /DIBP: 0.1%, 限值引用自 RoHS 指令(EU) 2015/863。

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:1258637,25

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验证报告

No. CKGEC2100433802

日期: 2021年07月09日 第34页,共42页

(5)▲=根据客户提供的声明, 编号 13 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 III 6(c)]: 铜合金中的铅含量不得超过 4%; 编号 45、46、51、58 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 III 7(a)]: 高熔点型焊料中的铅(如铅含量等于或大于 85%的铅基合金焊料); 编号 50 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 III 7(c)-II]: 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。

(6) 样本 No.50 的 Pb 测试结果为 869mg/kg $\pm$ 154 mg/kg。报告给出的扩展不确定度是根据合成标准不确定度乘以包含因子 k=2 得出的, 置信概率约为 95%。测试结论是在未考虑扩展不确定度的情况下作出的, 用约定测试方法进行测试后的产品还有可能超出规定限值。



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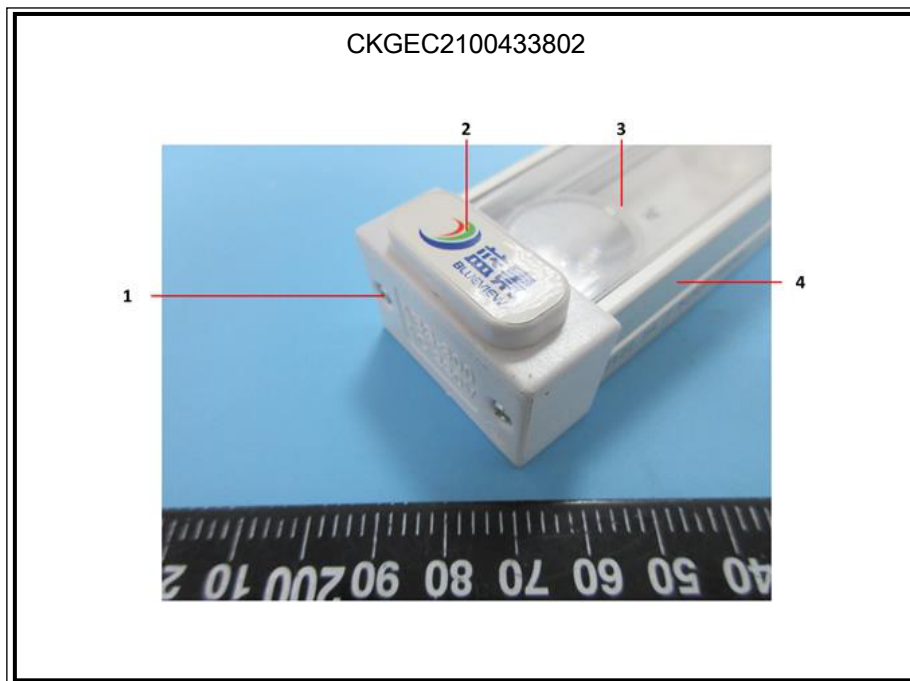
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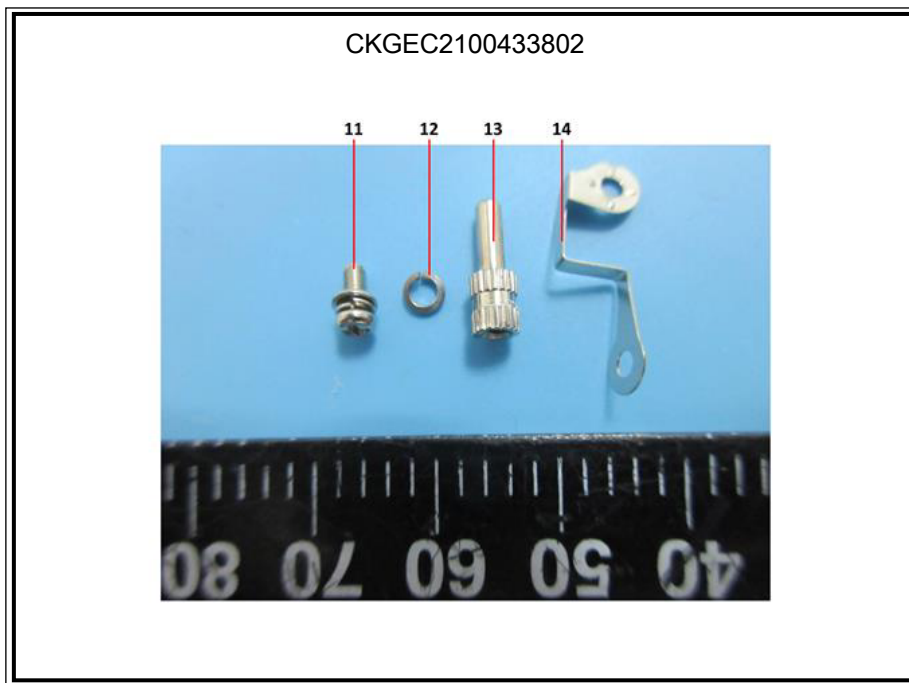
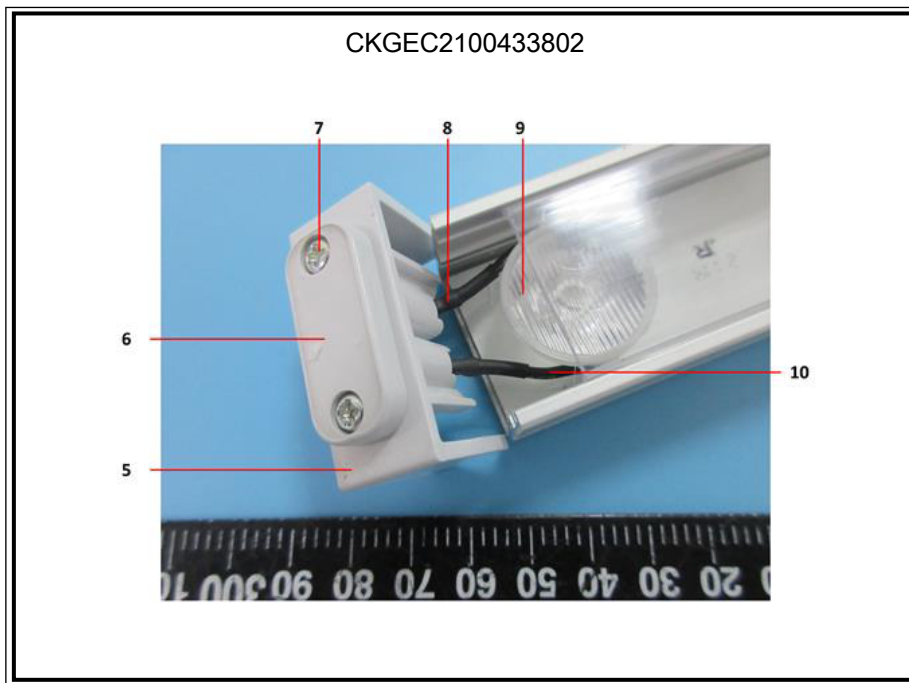
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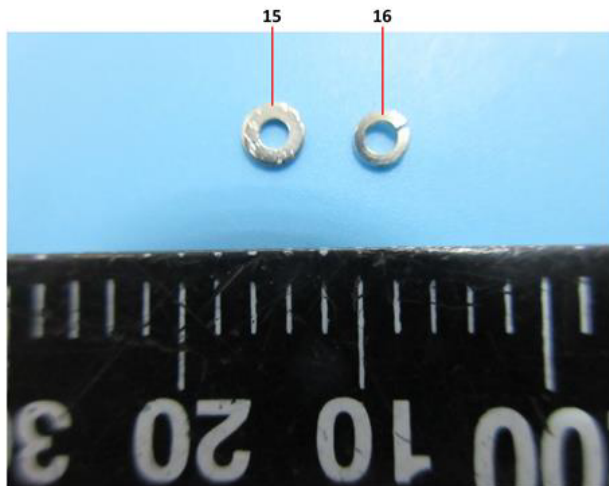
日期: 2021年07月09日 第35页,共42页

样品照片:

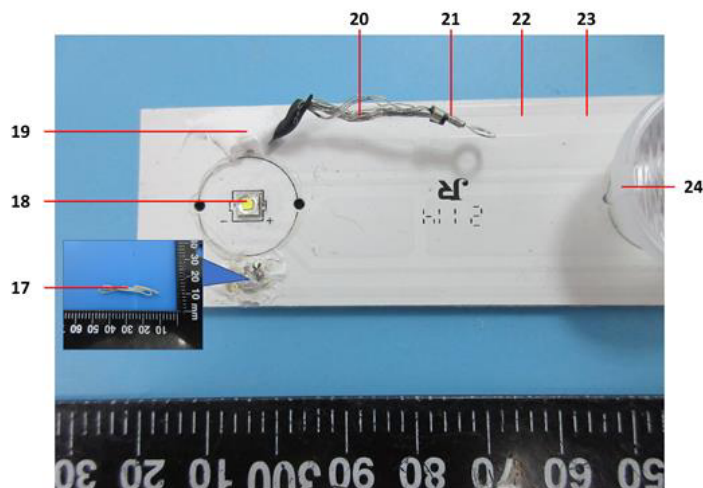




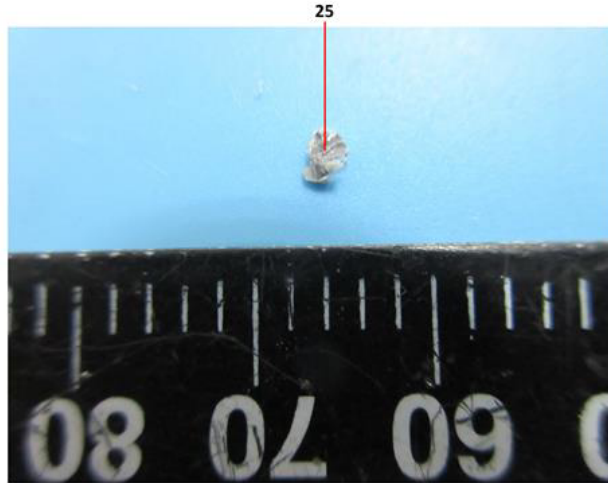
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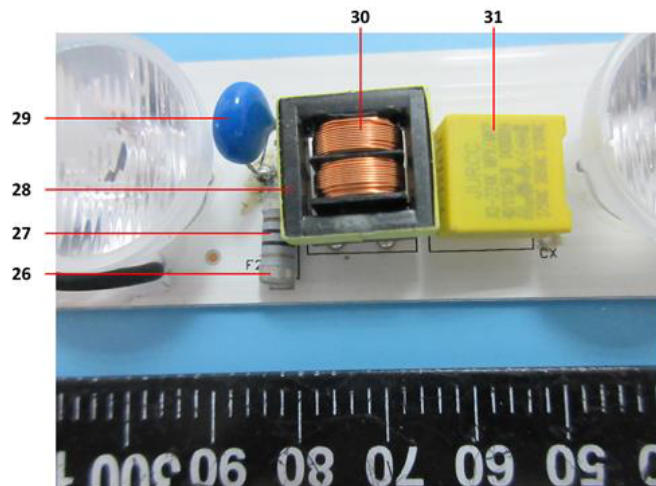
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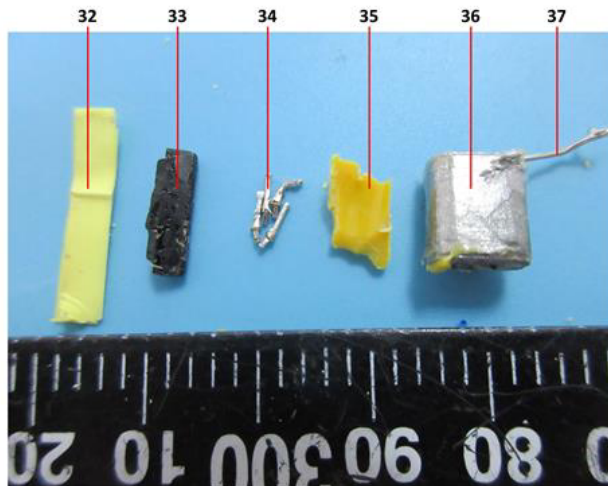
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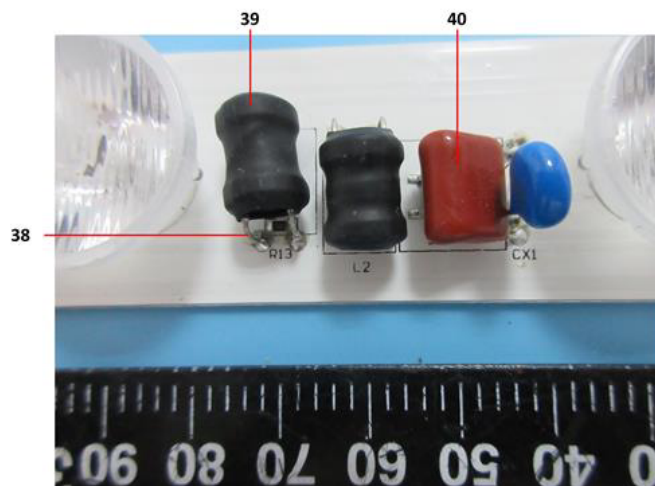
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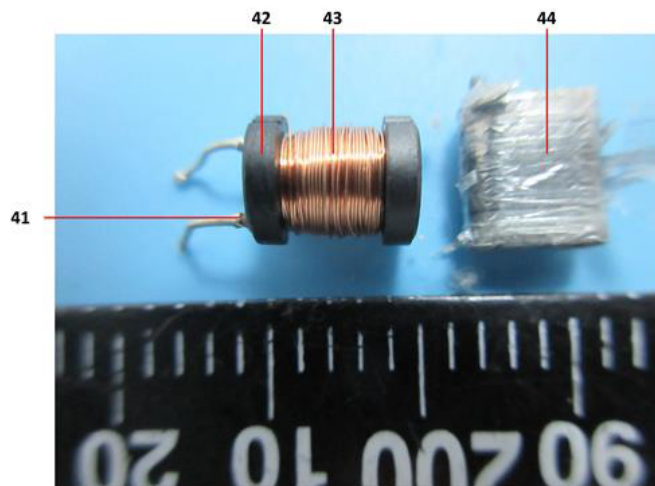
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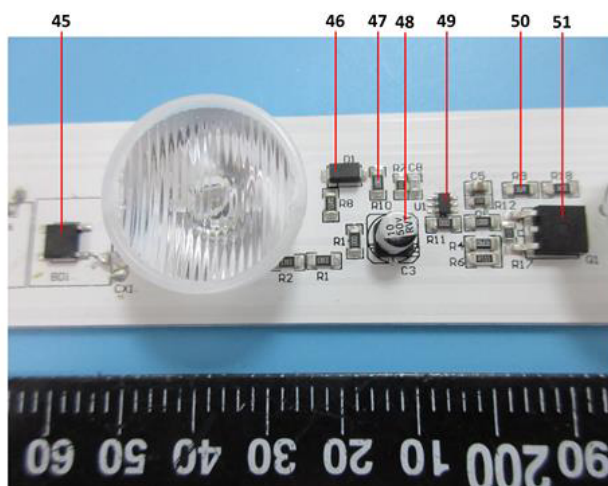
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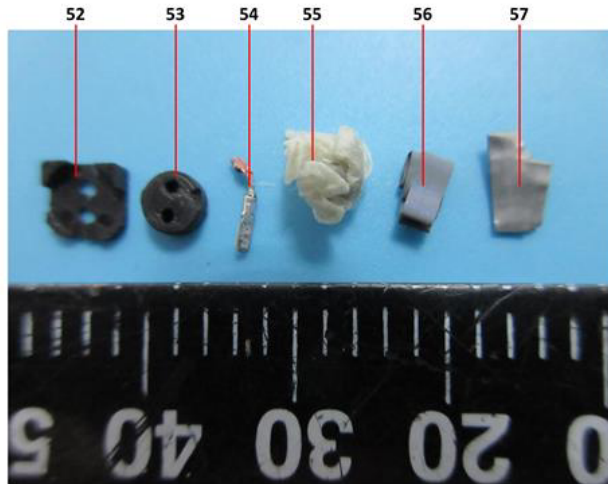
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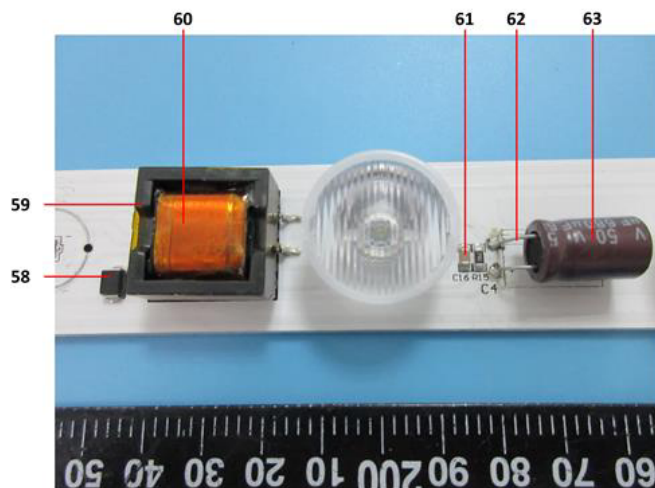
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