

## 检测报告

编号: SZXEC24001700802

日期: 2024年06月06日

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客户名称: 深圳市美特光电子有限公司

客户地址: 深圳市福田区福田街道岗厦社区福华路322号文蔚大厦9层9C单元

样品名称: 贴片发光二极管

型号: MATE-C150XXX

料号: MATE-XXX

客户参考信息: MATE-0201XXX、MATE-C281XXX、MATE-C283XXX、  
MATE-C19XXX、MATE-C190XXX、MATE-C191XX、  
MATE-C193XXX、MATE-C195XXX  
MMATE-C17XXX、MATE-C170XXX、MATE-C171XXX  
MATE-C15XXX、MATE-C150XXX、MATE-C151XXX、  
MATE-C155XXX MATE-3535XXX  
MATE-T680XXX、MATE-2835XXX、MATE-5730XXX  
MATE-C3014XXX MATE-3014XXX MATE-S3014XXX  
MATE-5050XXX MATE-E682XXX MATE-E683XXX  
MATE-E500XXX MATE-010XXX MATE-020XXX  
MATE-335XXX MATE-4014XXX MATE-S4014XXX  
MATE-C231XXX、MATE-C230XXX、MATE-S270XXX、  
MATE-S220XXX MATE-S110XXX  
MATE-S320XXX MATE-C930XXX MATE-3030XXX  
MATE-C950XXX MATE-C990XXX MATE-2020XXX  
MATE-S326XXX MATE-S115XXX MATE-C295XXX  
MATE-M670XXX MATE-M140XXX MATE-2121XXX

以上样品及信息由客户提供。

SGS 工作编号: SZP24-023072

样品接收时间: 2024年05月29日

检测周期: 2024年05月29日 ~ 2024年06月04日

检测要求: 根据客户要求检测

检测方法: 见后续页。

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授权签名

袁依婷

Fay Yuan 袁依婷  
批准签署人

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检测结果: 见后续页。

检测要求	结论
欧盟 RoHS 指令 2011/65/EU 附录 II 的修正指令(EU) 2015/863-铅、汞、镉、六价铬、多溴联苯 (PBB)、多溴二苯醚 (PBDE)、邻苯二甲酸二(2-乙基己基)酯 (DEHP)、邻苯二甲酸丁苄酯 (BBP)、邻苯二甲酸二丁酯 (DBP)和邻苯二甲酸二异丁酯 (DIBP)	符合

### 检测结果:

#### 检测部件外观描述:

样品序号	样品编号	SGS 样品 ID	样品描述
SN1	A1	SZX24-0017008-0001.C001	"贴片发光二极管"

#### 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

**欧盟 RoHS 指令 2011/65/EU 附录 II 的修正指令(EU) 2015/863-铅、汞、镉、六价铬、多溴联苯 (PBB)、多溴二苯醚 (PBDE)、邻苯二甲酸二(2-乙基己基)酯 (DEHP)、邻苯二甲酸丁苄酯 (BBP)、邻苯二甲酸二丁酯 (DBP)和邻苯二甲酸二异丁酯 (DIBP)**

检测方法: 参考 IEC 62321-4:2013+AMD1:2017, IEC 62321-5:2013, IEC 62321-7-2:2017, IEC 62321-6:2015 和 IEC 62321-8:2017, 采用 ICP-OES/AAS, UV-Vis 和 GC-MS 进行分析。

检测项目	限值	单位	MDL	A1
铅 (Pb)	1000	mg/kg	2	ND
汞 (Hg)	1000	mg/kg	2	ND
镉 (Cd)	100	mg/kg	2	ND
六价铬 (Cr(VI))	1000	mg/kg	8	ND
多溴联苯之和 (PBB)	1000	mg/kg	-	ND
一溴联苯 (MonoBB)	-	mg/kg	5	ND
二溴联苯 (DiBB)	-	mg/kg	5	ND
三溴联苯 (TriBB)	-	mg/kg	5	ND
四溴联苯 (TetraBB)	-	mg/kg	5	ND
五溴联苯 (PentaBB)	-	mg/kg	5	ND
六溴联苯 (HexaBB)	-	mg/kg	5	ND
七溴联苯 (HeptaBB)	-	mg/kg	5	ND
八溴联苯 (OctaBB)	-	mg/kg	5	ND
九溴联苯 (NonaBB)	-	mg/kg	5	ND
十溴联苯 (DecaBB)	-	mg/kg	5	ND
多溴二苯醚之和 (PBDE)	1000	mg/kg	-	ND
一溴二苯醚 (MonoBDE)	-	mg/kg	5	ND



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检测项目	限值	单位	MDL	A1
二溴二苯醚 (DiBDE)	-	mg/kg	5	ND
三溴二苯醚 (TriBDE)	-	mg/kg	5	ND
四溴二苯醚 (TetraBDE)	-	mg/kg	5	ND
五溴二苯醚 (PentaBDE)	-	mg/kg	5	ND
六溴二苯醚 (HexaBDE)	-	mg/kg	5	ND
七溴二苯醚 (HeptaBDE)	-	mg/kg	5	ND
八溴二苯醚 (OctaBDE)	-	mg/kg	5	ND
九溴二苯醚 (NonaBDE)	-	mg/kg	5	ND
十溴二苯醚 (DecaBDE)	-	mg/kg	5	ND
邻苯二甲酸二(2-乙基己基)酯 (DEHP)	1000	mg/kg	50	ND
邻苯二甲酸丁苄酯 (BBP)	1000	mg/kg	50	ND
邻苯二甲酸二丁酯 (DBP)	1000	mg/kg	50	ND
邻苯二甲酸二异丁酯 (DIBP)	1000	mg/kg	50	ND

**备注:**

(1) 最大允许限值引用自 RoHS 指令(EU) 2015/863。

(2) IEC 62321 系列等同于 EN 62321 系列。

(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。

除非另有说明, 参照 ILAC-G8:09/2019, 使用简单接受 (w=0) 的二元判定规则进行符合性判定。

除非另有说明, 此报告结果仅对检测的样品负责。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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附件

### 元素检测流程图

样品按照下述流程被完全消解



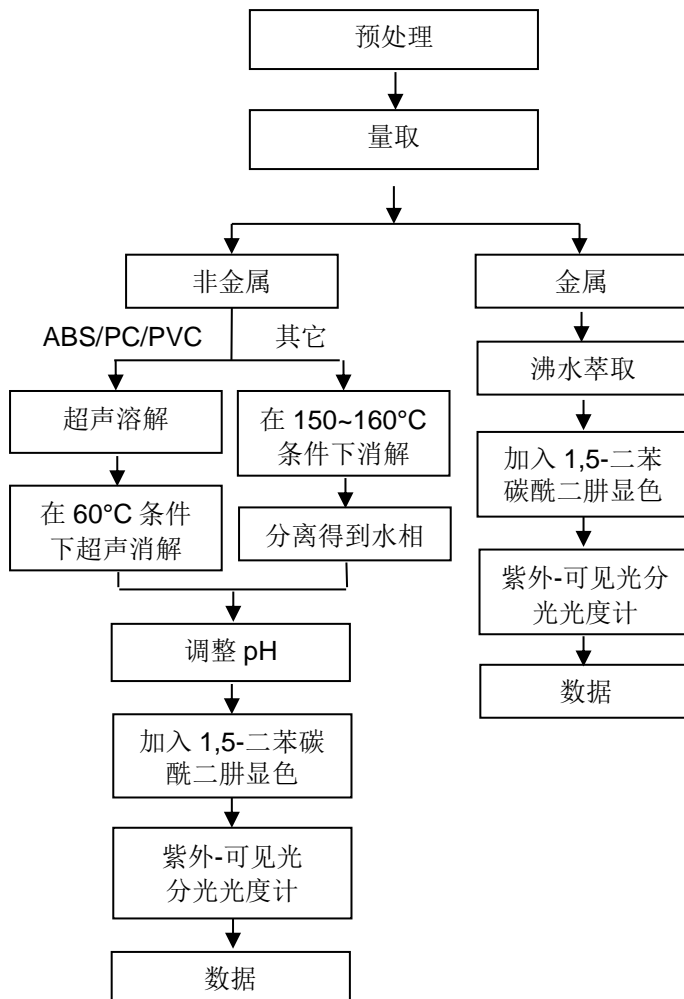
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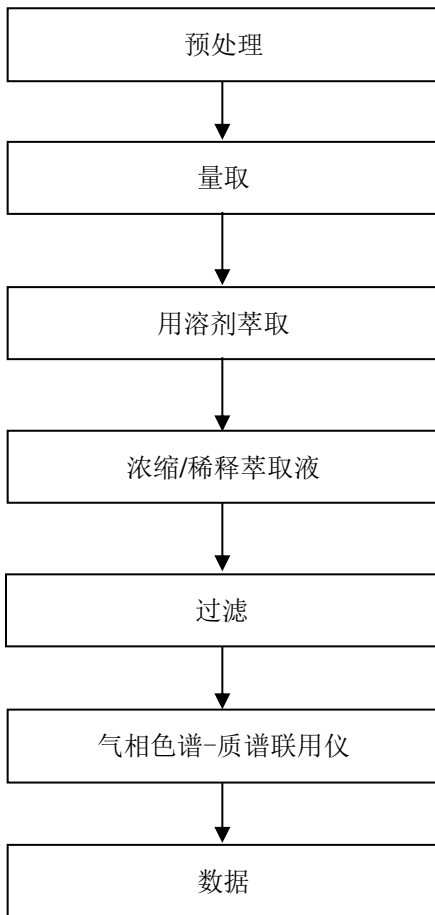
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### 六价铬检测流程图



### PBB/PBDE 检测流程图



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### Phthalates 检测流程图



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