检测报告

编号：SZXEC26004251902　　**日期：**2026 年 07 月 24 日　　

客户名称：　深圳市美特光电子有限公司

客户地址：　深圳市宝安区石岩街道上屋社区爱群路同富裕工业区 8-5 号厂房五层

样品名称：　贴片发光二极管

型号：　MATE-C191XXX

料号：　MATE-C191XXX

客户参考信息：　MATE-0201XXXX MATE-C281XXXX MATE-C191XXXX MATE-C193XXXX MATE-C171XXXX MATE-C170XXXX MATE-C151XXXX MATE-C150XXXX MATE-C232XXXX MATE-0404XXXX MATE-C295XXXX MATE-C155XXXX MATE-C195XXXX MATE-C197XXXX MATE-S270XXXX MATE-S220XXXX MATE-S110XXXX MATE-S115XXXX MATE-S320XXXX MATE-S326XXXX MATE-C990XXXX MATE-C980XXXX MATE-C930XXXX MATE-C950XXXX MATE-C190XXXX MATE-1209XXXX MATE-0807XXXX MATE-1010XXXX MATE-2427XXXX MATE-C230XXXX MATE-T680XXXX MATE-PT67XXXX MATE-3433XXXX MATE-2835XXXX MATE-5050XXXX MATE-3030 XXXX MATE-3535XXXX MATE-5054 XXXX MATE-4018 XXXX MATE-5730 XXXX MATE-3528 XXXX

以上样品及信息由客户提供。

SGS 工作编号：　SZP26-034609

样品接收时间：　2026 年 07 月 17 日

检测周期：　2026 年 07 月 17 日 ~ 2026 年 07 月 23 日

检测要求：　根据客户要求检测

检测方法：　见后续页。

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

通标标准技术服务有限公司深圳分公司

授权签名

Andy Ni 倪磊

批准签署人

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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	SZX26-0042519-0001.C001	"贴片发光二极管"

备注：

(1) 1 mg/kg = 1 ppm = 0.0001%
(2) MDL= 方法检出限
(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 和 IEC 62321-12:2023，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	8
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	25	ND
二溴联苯 (DiBB)	-	mg/kg	25	ND
三溴联苯 (TriBB)	-	mg/kg	25	ND
四溴联苯 (TetraBB)	-	mg/kg	25	ND
五溴联苯 (PentaBB)	-	mg/kg	25	ND
六溴联苯 (HexaBB)	-	mg/kg	25	ND
七溴联苯 (HeptaBB)	-	mg/kg	25	ND
八溴联苯 (OctaBB)	-	mg/kg	25	ND
九溴联苯 (NonaBB)	-	mg/kg	25	ND
十溴联苯 (DecaBB)	-	mg/kg	25	ND
多溴二苯醚之和 (PBDE)	1000	mg/kg	-	ND
一溴二苯醚 (MonoBDE)	-	mg/kg	25	ND
二溴二苯醚 (DiBDE)	-	mg/kg	25	ND
三溴二苯醚 (TriBDE)	-	mg/kg	25	ND
四溴二苯醚 (TetraBDE)	-	mg/kg	25	ND
五溴二苯醚 (PentaBDE)	-	mg/kg	25	ND
六溴二苯醚 (HexaBDE)	-	mg/kg	25	ND
七溴二苯醚 (HeptaBDE)	-	mg/kg	25	ND
八溴二苯醚 (OctaBDE)	-	mg/kg	25	ND

检验检测专用章 Inspection & Testing Services
SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch Technical Services Co., Ltd. Laboratory

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检测项目	限值	单位	MDL	A1
九溴二苯醚 (NonaBDE)	-	mg/kg	25	ND
十溴二苯醚 (DecaBDE)	-	mg/kg	25	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) 最大允许极限值引用自 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。

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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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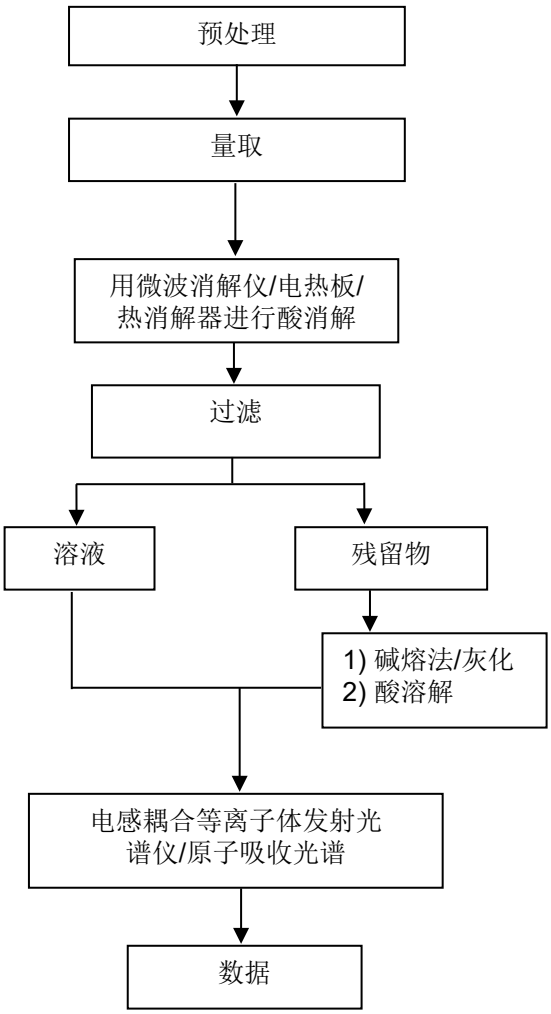
附件

元素检测流程图

样品中的 Pb/Cd/Hg 按照下述流程被完全消解。



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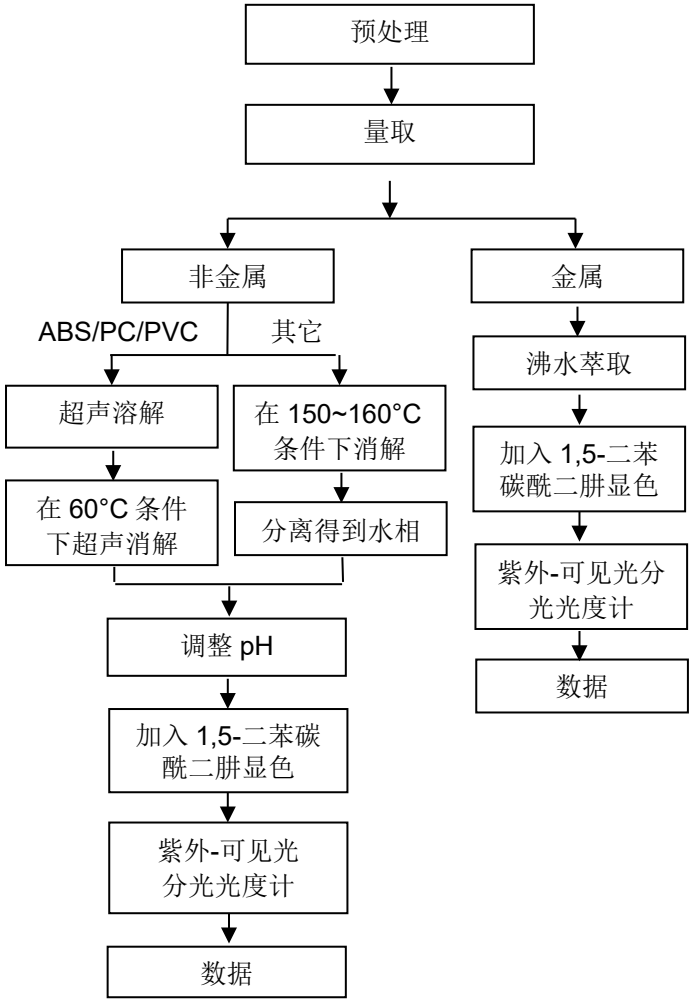
六价铬检测流程图



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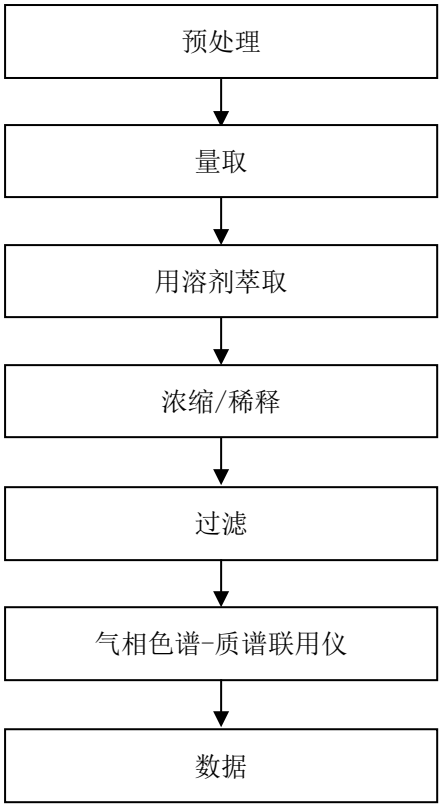
PBB(s)/PBDE(s)/Phthalates 检测流程图



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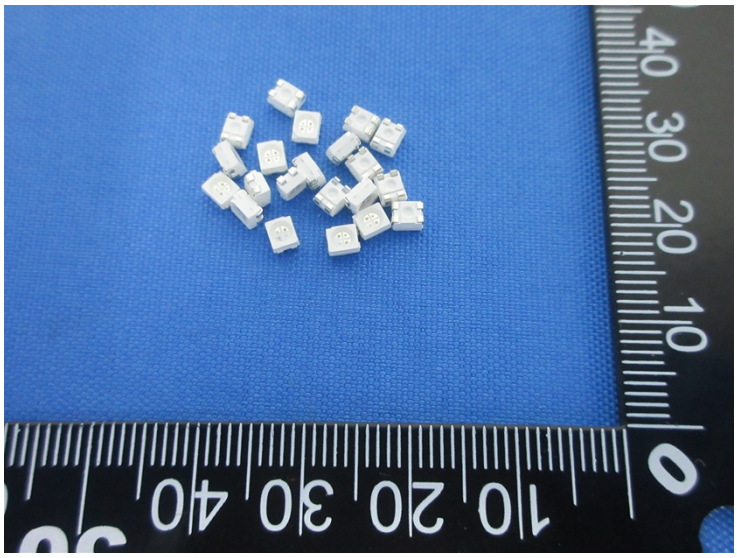

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