

检测报告 Test Report



报告编号 A2260516431101003E
Report No. A2260516431101003E

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报告抬头公司名称 东莞市弘呈光电有限公司
Company Name DONGGUAN HONGCHENG OPTOELECTRONICS CO., LTD.
shown on Report
地 址 东莞市樟木头镇莞樟路樟木头段15号15栋2108室
Address ROOM 2108, BUILDING 15, SECTION OF ZHANGMUOTOU ROAD,
DAZHANG ROAD, ZHANGMUOTOU TOWN, DONGGUAN CITY

以下测试之样品及样品信息由申请者提供并确认

The following sample(s) and sample information was/were submitted and identified by/on the behalf of the applicant

样品名称	发光二极管
Sample Name	发光二极管
样品型号	HC-XXXXXXXXXXXXX
Model No.	HC-XXXXXXXXXXXXX
供应商	广东光宇半导体科技有限公司
Supplier	Guangdong Guangyu Semiconductor Technology Co., Ltd
样品接收日期	2026.06.23
Sample Received Date	Jun. 23, 2026
样品检测日期	2026.06.23-2026.07.08
Testing Period	Jun. 23, 2026 to Jul. 8, 2026

测试内容 Test Conducted:

根据客户的申请要求，具体要求详见下一页。

As requested by the applicant. For details refer to next page(s).



许贻晶
许贻晶
实验室经理 Lab Manager

日 期
Date 2026.07.08

No. R662337103

广东省广州市黄埔区博华一路203号

No.203, Bohua 1st Road, Huangpu District, Guangzhou, Guangdong, China

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测试摘要 Executive Summary:

测试要求

TEST REQUEST

美国环保署有毒物质控制法 (TSCA) 第6(h) 部分关于持久性、生物累积性和毒性 (PBT) 化学物质的管控

Persistent, Bioaccumulative, and Toxic (PBT) Chemicals under US EPA Toxic Substances Control Act (TSCA) Section 6(h)

- 十溴二苯醚
Decabromodiphenyl Ether (DecaBDE)
- 异丙基化磷酸三苯酯
Phenol, Isopropylated Phosphate (PIP (3:1))
- 2, 4, 6-三叔丁基苯酚
2,4,6-tris(tert-butyl) phenol (2,4,6-TTBP)
- 六氯丁二烯
Hexachlorobutadiene (HCBD)
- 五氯苯硫酚
Pentachlorothiophenol (PCTP)

测试结果

CONCLUSION

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See test result(s)

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See test result(s)

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See test result(s)

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*****详细结果，请见下页*****

***** For further details, please refer to the following page(s) *****

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美国环保署有毒物质控制法 (TSCA) 第6(h) 部分关于持久性、生物累积性和毒性 (PBT) 化学物质的管控

Persistent, Bioaccumulative, and Toxic (PBT) Chemicals under US EPA Toxic Substances Control Act (TSCA) Section 6(h)

▼ 十溴二苯醚 Decabromodiphenyl Ether (DecaBDE)

测试方法: 参考US EPA 3550C:2007 & US EPA 8270E:2018; 测试仪器: GC-MS

Test Method: Refer to US EPA 3550C:2007 & US EPA 8270E:2018; Test Equipment: GC-MS

测试项目 Tested Item(s)	结果Result (mg/kg)	方法检出限 MDL (mg/kg)	限值Limit (mg/kg)
	003		
十溴二苯醚 Decabromodiphenyl Ether (DecaBDE)	N.D.	5	1000

备注 Remark:

- MDL = 方法检出限 Method Detection Limit
- N.D. = 未检出 Not Detected (小于方法检出限 <MDL)
- mg/kg = ppm = 百万分之一 parts per million
- 此限值适用于在产品 and 物品中非有意添加十溴二苯醚 (DecaBDE) 的情况, 建议结合供应链确认物质的添加情况。
The limit applies to the situation where Decabromodiphenyl Ether (DecaBDE) is not intentionally added to the product or article. It is recommended to verify the addition of these substances through the supply chain.
- 根据客户要求, 对样品进行混合测试, 测试结果不代表混合测试样品中任何一种单一材质的含量。As specified by client, the test was conducted by mixing several samples together. The result(s) shown on this report may be different from the content of any homogeneous material.

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▼ 异丙基化磷酸三苯酯 Phenol, Isopropylated Phosphate (PIP (3:1))

测试方法: 参考US EPA 3550C:2007 & US EPA 8270E:2018; 测试仪器: GC-MS

Test Method: Refer to US EPA 3550C:2007 & US EPA 8270E:2018; Test Equipment: GC-MS

测试项目 Tested Item(s)	结果Result (mg/kg)	方法检出限 MDL (mg/kg)	限值Limit (mg/kg)
	003		
异丙基化磷酸三苯酯 Phenol, Isopropylated Phosphate (PIP (3:1))	N.D.	5	1000

备注 Remark:

- MDL = 方法检出限 Method Detection Limit
- N.D. = 未检出 Not Detected (小于方法检出限 <MDL)
- mg/kg = ppm = 百万分之一 parts per million
- 此限值适用于在产品中非有意添加异丙基化磷酸三苯酯 (PIP (3:1)) 的情况, 建议结合供应链确认物质的添加情况。
The limit applies to the situation where Phenol, Isopropylated Phosphate (PIP (3:1)) is not intentionally added to the product or article. It is recommended to verify the addition of these substances through the supply chain.
- 根据客户要求, 对样品进行混合测试, 测试结果不代表混合测试样品中任何一种单一材质的含量。As specified by client, the test was conducted by mixing several samples together. The result(s) shown on this report may be different from the content of any homogeneous material.

▼ 2,4,6-三叔丁基苯酚 2,4,6-tris(tert-butyl) phenol (2,4,6-TTBP)

测试方法: 参考US EPA 3550C:2007 & US EPA 8270E:2018; 测试仪器: GC-MS

Test Method: Refer to US EPA 3550C:2007 & US EPA 8270E:2018; Test Equipment: GC-MS

测试项目 Tested Item(s)	结果Result (mg/kg)	方法检出限 MDL (mg/kg)	限值Limit (mg/kg)
	003		
2,4,6-三叔丁基苯酚 2,4,6-tris(tert-butyl) phenol (2,4,6-TTBP)	N.D.	5	3000

备注 Remark:

- MDL = 方法检出限 Method Detection Limit
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▼六氯丁二烯Hexachlorobutadiene (HCBd)

测试方法: 参考US EPA 3550C:2007 & US EPA 8270E:2018; 测试仪器: GC-MS

Test Method: Refer to US EPA 3550C:2007 & US EPA 8270E:2018; Test Equipment: GC-MS

测试项目 Tested Item(s)	结果Result (mg/kg)	方法检出限 MDL (mg/kg)	限值Limit (mg/kg)
	003		
六氯丁二烯 Hexachlorobutadiene (HCBd)	N.D.	5	N.D.

备注 Remark:

- MDL = 方法检出限Method Detection Limit
- N.D. = 未检出Not Detected (小于方法检出限 <MDL)
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- 根据客户要求, 对样品进行混合测试, 测试结果不代表混合测试样品中任何一种单一材质的含量。 As specified by client, the test was conducted by mixing several samples together. The result(s) shown on this report may be different from the content of any homogeneous material.

▼五氯苯硫酚Pentachlorothiophenol (PCTP)

测试方法: 参考US EPA 3550C:2007 & US EPA 8270E:2018; 测试仪器: GC-MS

Test Method: Refer to US EPA 3550C:2007 & US EPA 8270E:2018; Test Equipment: GC-MS

测试项目 Tested Item(s)	结果Result (mg/kg)	方法检出限 MDL (mg/kg)	限值Limit (mg/kg)
	003		
五氯苯硫酚 Pentachlorothiophenol (PCTP)	N.D.	5	10000

备注 Remark:

- MDL = 方法检出限Method Detection Limit
- N.D. = 未检出Not Detected (小于方法检出限 <MDL)
- mg/kg = ppm = 百万分之一 parts per million
- 根据客户要求, 对样品进行混合测试, 测试结果不代表混合测试样品中任何一种单一材质的含量。 As specified by client, the test was conducted by mixing several samples together. The result(s) shown on this report may be different from the content of any homogeneous material.

样品/部位描述 Sample/Part Description

序号 No.	CTI样品ID CTI Sample ID	描述 Description
1	003	混测, LED (整体测试) Mixed test, LED(Tested as a whole)

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注释Note:

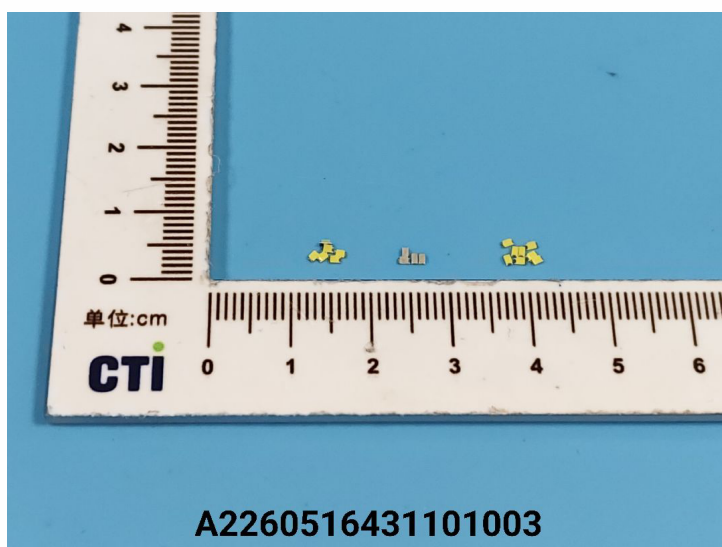
- 本报告中的数据结果供科研、教学、企业内部质量控制、企业产品研发等目的用。
The testing data and result(s) in this report is(are) just for scientific research, education, internal quality control and product development etc.

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样品图片 Photo(s) of the sample(s)



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1. 本报告无批准人签字、“专用章”及报告骑缝章无效;
This report is considered invalid without approved signature, special seal and the seal on the perforation;
2. 报告抬头公司名称及地址、样品及样品信息由申请者提供, 申请者应对其真实性负责, CTI未核实其真实性;
The Company Name shown on Report and Address, the sample(s) and sample information was/were provided by the applicant who should be responsible for the authenticity which CTI hasn't verified;
3. 本报告检测结果仅对受测样品负责;
The result(s) shown in this report refer(s) only to the sample(s) tested;
4. 除非另有说明, 报告参照ILAC-G8:09/2019 / CNAS-GL015:2022使用简单接受(w=0)二元判定规则进行符合性判定;
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报告结束

*** End of report ***