

Test Report

No.: EGZ2506130097C00502R

Date: Jun. 20, 2025

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Applicant : Chipintelli Technology Co., Ltd.
委托单位 : 成都启英泰伦科技有限公司
Address : The 12th floor, Building 4A, Jingronghui, No.200 Tianfu 5th Street, High-tech Zone, Chengdu, China.
地 址 : 成都市高新区天府五街 200 号菁蓉汇 4A 栋 12 楼

Sample Name : Chip
样品名称 : 芯片
Model/型号 : CI13162

Received Date : Jun. 16, 2025
接收日期 : 2025 年 06 月 16 日
Test Period : Jun. 16, 2025~Jun. 20, 2025
检测日期 : 2025 年 06 月 16 日~2025 年 06 月 20 日

Test Requested : As requested by client, according to Toxics in Packaging Clearinghouse Model Legislation (2021 Update), to determine:
检测要求 : 根据客户要求, 依据包装中有毒物质示范法规 (2021 年更新), 检测以下项目:
1. the content of Cadmium, Lead and Mercury in the submitted sample;
样品中的镉, 铅和汞的含量;
2. the content of Hexavalent Chromium in the submitted sample;
样品中的六价铬的含量;
3. the phthalates contents in the submitted sample;
样品中邻苯二甲酸酯的含量;
4. total fluorine content in the submitted sample.
样品中总氟的含量。

Test Results : Please refer to next page (s).
检测结果 : 请参看随后页面。



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Executive Summary:
执行测试总结:

STANDARD
标准

CONCLUSION
结论

Toxics in Packaging Clearinghouse Model Legislation (2021 Update)
包装中有毒物质示范法规（2021年更新）

PASS
合格



Signed for and on behalf of
EMTEK(Guangzhou) Co., Ltd.

Prepared by:

Coco

Zeng Min, Coco
Assistant engineer

Reviewed by:

Ethan

Sun Wei, Ethan
Technical supervisor

Approved by:



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Sample List:
样品清单:

No. 序号	Sample Number 样品编号	Sample Name 样品名称
1	E2506130097-01	Chip 芯片

Test Sample List:
检测样品清单:

No. 序号	Sample Name 样品名称	Sample Description 样品描述
1.1	Chip 芯片	Chip 芯片

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Test Results:

检测结果:

Toxics in Packaging Clearinghouse Model Legislation (2021 Update)

包装中有毒物质示范法规 (2021 年更新)

1. Cd, Pb, Hg and Cr⁶⁺ contents:

镉, 铅, 汞和六价铬含量:

Test Method: 1) With reference to US EPA 3052:1996, determine the Cd, Pb and Hg by ICP-OES/AAS;

检测方法: 参照 US EPA 3052:1996, 用 ICP-OES/AAS 测定镉、铅、汞含量;

2) With reference to US EPA 3060A:1996 & US EPA 7196A:1992 & , determine the Cr⁶⁺ by UV-VIS.

参照 US EPA 3060A:1996 & US EPA 7196A:1992, 用 UV-VIS 测定六价铬的含量。

Analyte 被分析物	Unit 单位	Test Result 结果	MDL	Limit 限值
		1.1		
Cadmium (Cd) 镉 (Cd)	mg/kg	ND	2	--
Lead (Pb) 铅 (Pb)	mg/kg	ND	2	--
Mercury (Hg) 汞 (Hg)	mg/kg	ND	2	--
Hexavalent Chromium (Cr ⁶⁺) 六价铬 (Cr ⁶⁺)	mg/kg	ND	2	--
Total(Cd、Pb、Hg、Cr ⁶⁺)* 总量(铅、镉、汞、六价铬)*	mg/kg	ND	--	100

Note: (1). mg/kg = milligram per kilogram = ppm MDL = Method Detection Limit

备注: mg/kg = 毫克/千克= 百万分之一 MDL = 方法检测限

ND = Not Detected (Less than MDL)

ND = 未检测到 (小于 MDL)

(2). * = only the test result which is above the MDL is taken into account when calculating the sum.

* = 计算总和时仅考虑超过 MDL 的测试结果。

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Test Results:

检测结果:

2. Phthalates contents:

邻苯二甲酸酯的含量:

Test Method: with reference to CPSC-CH-C1001-09.4, the analysis was performed by GC-MS.

检测方法: 参照测试方法 CPSC-CH-C1001-09.4, 所得溶液经由气相色谱质谱联用仪器分析检测。

Test Item 检测项目	CAS Number CAS 号码	Test Result (mg/kg) 测试结果 (mg/kg)	MDL (mg/kg)	Limit (mg/kg) 限值(mg/kg)
		1.1		
Benzylbutyl phthalate(BBP) 邻苯二甲酸丁苄酯(BBP)	85-68-7	ND	50	---
Di-2-ethylhexyl phthalate(DEHP) 邻苯二甲酸二(2-乙基己基)酯(DEHP)	117-81-7	ND	50	---
Dibutyl phthalate(DBP) 邻苯二甲酸二丁酯(DBP)	84-74-2	ND	50	---
Diisobutyl phthalat (DIBP) 邻苯二甲酸二异丁酯(DIBP)	84-69-5	ND	50	---
1,2-benzenedicarboxylic acid, di-C7-11- branched and linear alkyl ester(DHNUP) 1,2-苯二酸二(C7-11 支链与直链)烷基 (醇)酯(DHNUP)	68515-42-4	ND	50	---
1,2-Benzenedicarboxylic acid, di-C6-8- branched alkyl esters, C7-rich (DIHP) 邻苯二甲酸烷基酯(C6-8 支型结构,C7 富 集)(DIHP)	71888-89-6	ND	50	---
Bis(2-methoxyethyl) phthalate (DMEP) 邻苯二甲酸甲氧基乙基酯(DMEP)	117-82-8	ND	50	---
1,2-Benzenedicarboxylic acid, dipentyl ester, branched and linear 支链和直链 1,2-苯二羧二戊酯	84777-06-0	ND	50	---
n-Pentyl iso-pentyl phthalate(nPiPP) 邻苯二甲酸正戊基异戊基酯(nPiPP)	776297-69-9	ND	50	---
Dipentyl phthalate(DPP) 邻苯二甲酸二戊酯(DPP)	131-18-0	ND	50	---
Di-n-hexyl phthalate(DNHP) 邻苯二甲酸二正己酯(DNHP)	84-75-3	ND	50	---
1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	68515-50-4	ND	50	---

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Test Item 检测项目	CAS Number CAS 号码	Test Result (mg/kg) 测试结果 (mg/kg)	MDL (mg/kg)	Limit (mg/kg) 限值(mg/kg)
		1.1		
1,2-邻苯二甲酸二(支链与直链)己基酯				
1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters; 1,2-benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters with $\geq 0.3\%$ of dihexyl phthalate (EC No. 201-559-5) 邻苯二甲酸二-碳-6-10-烷基酯; 邻苯二甲酸二(癸基, 己基, 辛基混合)酯, 其中邻苯二甲酸二己基酯含量 $\geq 0.3\%$ (EC No. 201-559-5)	68515-51-5 68648-93-1	ND	50	---
Dicyclohexyl ortho-phthalate(DCHP) 邻苯二甲酸二环己酯(DCHP)	84-61-7	ND	50	---
Diisohexyl phthalate(DIHxP) 邻苯二甲酸二异己酯(DIHxP)	71850-09-4	ND	50	---
Di-n-octyl phthalate(DNOP) 邻苯二甲酸二正辛酯(DNOP)	117-84-0	ND	50	---
Diisononyl phthalate(DINP) 邻苯二甲酸二异壬酯(DINP)	28553-12-0/ 68515-48-0	ND	50	---
Diisodecyl phthalate(DIDP) 邻苯二甲酸二异癸酯(DIDP)	26761-40-0/ 68515-49-1	ND	50	---
Dichthyl ortho-phthalate(DEP) 邻苯二甲酸二乙酯(DEP)	84-66-2	ND	50	---
Dimethyl ortho-phthalate(DMP) 邻苯二甲酸二甲酯(DMP)	131-11-3	ND	50	---
Dipropyl phthalate(DPRP) 邻苯二甲酸二丙基酯(DPRP)	131-16-8	ND	50	---
Dinonyl phthalate(DNP) 邻苯二甲酸二壬酯(DNP)	84-76-4	ND	50	---
Diheptyl phthalate(DHP) 邻苯二甲酸二庚酯(DHP)	3648-21-3	ND	50	---
Di-isopentyl phthalate(DIPP) 邻苯二甲酸二异戊酯(DIPP)	605-50-5	ND	50	---
Diisooctyl phthalate(DIOP) 邻苯二甲酸二异辛酯(DIOP)	27554-26-3	ND	50	---
Di(2-ethylhexyl) Adipate(DEHA) 己二甲酸二乙基己基酯(DEHA)	103-23-1	ND	50	---

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Test Item 检测项目	CAS Number CAS 号码	Test Result (mg/kg) 测试结果 (mg/kg)	MDL (mg/kg)	Limit (mg/kg) 限值(mg/kg)
		1.1		
Dibenzyl phthalate(DBZP) 邻苯二甲酸二苄酯(DBZP)	523-31-9	ND	50	---
Diphenyl phthalate(DPHP) 邻苯二甲酸二苯酯(DPHP)	84-62-8	ND	50	---
Diundecyl phthalates(DUP) 邻苯二甲酸双十一烷酯(DUP)	3648-20-2	ND	50	---
Diallyl phthalate(DAP) 邻苯二甲酸二丙烯酯(DAP)	131-17-9	ND	50	---
Phthalic acid, monobutyl ester (MBP) 邻苯二甲酸单丁酯(MBP)	131-70-4	ND	50	---
Bis(2-ethoxyethyl) phthalate(DEEP) 邻苯二甲酸双-2-乙氧基乙酯(DEEP)	605-54-9	ND	50	---
Bis-2-nbutoxyethyl ester(DBEP) 邻苯二甲酸二丁氧基乙酯(DBEP)	117-83-9	ND	50	---
Bis(4-methyl-2-pentanyl) phthalate(BMPP) 邻苯二甲酸双(4-甲基-2-戊基) (BMPP)	84-63-9	ND	50	---
1,2-Benzenedicarboxylicacid, 1,2-bis(2- propylheptyl) ester(DPHP) 邻苯二甲酸二(2-丙基庚基)酯(DPHP)	53306-54-0	ND	50	---
Total of above phthalates (sum)# 以上邻苯二甲酸酯总量(总和)#	---	ND	---	100

Note: (1). mg/kg = milligram per kilogram = ppm MDL = Method Detection Limit
 备注: mg/kg = 毫克/千克= 百万分之一 MDL = 方法检测限
 ND = Not Detected (Less than MDL)
 ND = 未检测到 (小于 MDL)

(2). # = Only those phthalates components which present in the material over the 50 mg/kg are taken into account while calculating the sum of phthalates. And other phthalates were not concered in this report.

= 计算邻苯二甲酸酯总量时, 仅考虑材料中含量超过 50 mg/kg 的邻苯二甲酸酯, 其他邻苯二甲酸酯类物质在本结果中不涉及。

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Test Results:

检测结果:

3. Total fluorine content:

总氟含量:

Test Method: After aqueous solution extraction pretreatment, with reference to BS EN 14582:2016 “Characterization of waste – Halogen and sulfur content – Oxygen Combustion in closed systems and determination methods”, analysis was performed by Ion Chromatography.

检测方法: 通过水溶液萃取预处理后, 参照 BS EN 14582:2016 “废弃物-卤素和硫含量-氧燃烧测定法”, 采用 IC 进行分析。

Analyte 被分析物	Unit 单位	Result 检测结果	MDL	Client's Limit 客户限值
		1.1		
Total fluorine 总氟	mg/kg	ND	50	Prohibit containing 禁止含有

Note: mg/kg = milligram per kilogram = ppm
备注: mg/kg = 毫克/千克 = 百万分之一
ND = Not Detected (Less than MDL)
ND= 未检测到 (小于 MDL)

MDL = Method Detection Limit
MDL= 方法检测限

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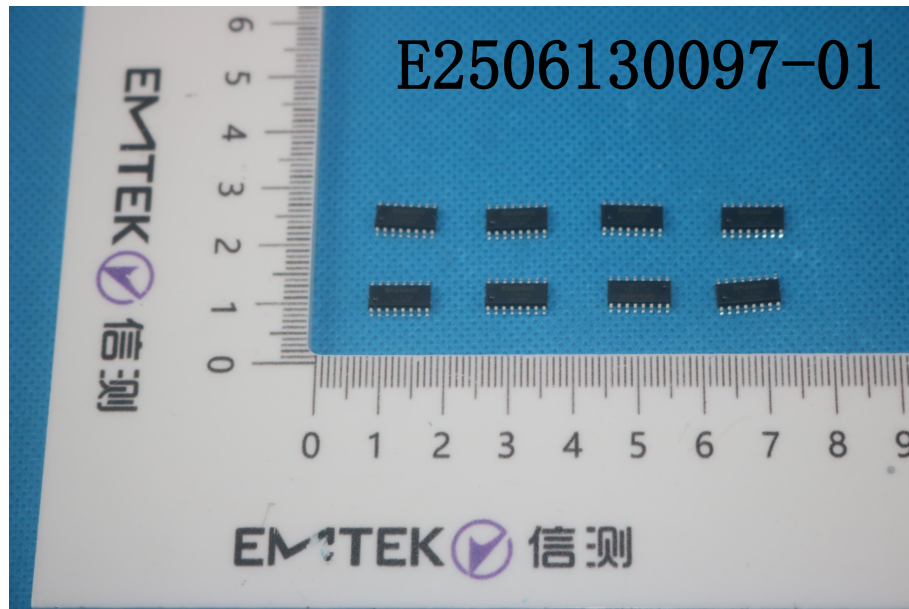
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Sample Photo:
样品照片:



*** End of Report ***
*** 报告结束 ***

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Clients wishing to use the Report in court proceedings or arbitration shall inform the Company to that effect prior to submitting the sample for testing.
8. 该测试报告的支持数据和信息本公司保存 10 年。个别评审机构有特别要求的，检测数据和报告的保存期可依情况变动。一旦超过上述提交的保存期限，数据和信息将被处理掉。任何情况下，本公司不必提供任何被处理的过期数据或信息。即使本公司事先被告知可能会发生相关的损害，本公司在任何情况下也不必承担任何损害，包括（但不限于）补偿性赔偿、利润损失、数据遗失、或任何形式的特殊损害、附带损害、间接损害、从属损害或任何违反约定、违反承诺、侵权（包括疏忽）、产品责任或其他原因的惩罚性损害。
Subject to the variable length of retention time for test data and report stored hereinto as otherwise specifically required by individual accreditation authorities, the Company will only keep the supporting test data and information of the test report for a period of ten years. The data and information will be disposed of after the aforementioned retention period has elapsed. Under no circumstances shall we provide any data and information which has been disposed of after retention period. Under no circumstances shall we be liable for damage of any kind, including (but not limited to) compensatory damages, lost profits, lost data, or any form of special, incidental, indirect, consequential or punitive damages of any kind, whether based on breach of contract of warranty, tort (including negligence), product liability or otherwise, even if we are informed in advance of the possibility of such damages.

