



中国认可  
国际互认  
检测  
TESTING  
CNAS L9381



# 检测报告

编号: ESZ2504160001T00001R

日期: 2025年04月30日

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委托单位 : 英联金属科技(汕头)有限公司  
Applicant : ENPACK METALS TECHNOLOGY(SHANTOU)CO.,LTD  
地址 : 汕头市濠江区南强路6号  
Address : No.6 Nanqiang Road,Haojiang Area,Shantou,PRC

以下检测之样品及样品信息是由申请者提供并确认

The sample and sample information tested below are provided and confirmed by the applicant

样品名称 : 铝盖(易开盖/易撕盖/底盖)  
Sample Name : Aluminum cover (easy to open/tear off/bottom cover)  
材质 : 内涂透明  
Material : Internally coated with transparent coating

接收日期 : 2025年04月16日  
Received Date : Apr. 16, 2025  
检测周期 : 2025年04月16日~2025年04月30日  
Test Period : Apr. 16, 2025~ Apr. 30, 2025

检测概要 : 见下页  
Test Summary : Refer to next page

苏州市信测标准技术服务有限公司

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授权签字人

2025年04月30日

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日期: 2025 年 04 月 30 日

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## 检测概要

## Test Summary

## 检测项目/Test Item

## 结论/Conclusion

GB 4806.10-2016 《食品安全国家标准 食品接触用涂料及涂层》-感官要求及理化指标 GB 4806.10-2016 "National standard for food safety - Food contact with paint and coating" - Sensory requirements, Physical and chemical indicators	Pass
双酚 A 迁移量 Migration of Bisphenol A	Pass
三聚氰胺迁移量 Migration amount of melamine	Pass
邻苯二甲酸酯迁移量 Phthalate migration	Pass

注: 符合 (Pass); 不符合 (Fail); 不评价或仅提供检测结果 (N/A)

Remark: Pass: meet the requirement; Fail: Doesn't meet the requirement; N/A: Without conclusions or provide test results only.

样品描述 (以下检测之样品及样品信息是由申请者提供并确认)

Sample Description (The sample and sample information tested below are provided and confirmed by the applicant.)

样品序号 No.	样品编号 Sample Number	样品名称 Sample Name
01	E2504160001-01-T	铝盖 (易开盖/易撕盖/底盖) Aluminum cover (easy to open/tear off/bottom cover)

## 检测结果汇总 Summary of Test Results

## 1. 食品接触用涂料及涂层测试 Food contact and coating test

## 1.1 检测结果 Test Result :

指标要求依据 GB 4806.10-2016 《食品安全国家标准 食品接触用涂料及涂层》

Indicator requirements value reference to GB 4806.10-2016 "food safety standards for food contact and coating"

检测项目 Test Item	单位 Unit	指标要求 Indicator requirements	检测结果 Test Result	单项结论 Single Conclusion	检测方法 Test Method
			01		
涂层感官要求 Coating sensory requirements	感官 Sensory	--	通过 Meet	符合 Pass	GB 4806.10 -2016

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检测项目 Test Item		单位 Unit	指标要求 Indicator requirements	检测结果 Test Result	单项结论 Single Conclusion	检测方法 Test Method
				01		
	浸泡液 Soaking solution	--	迁移试验所得浸泡液不应有着色、浑浊、沉淀、异臭等感官性的劣变 The soaking solution obtained from the migration test should not have sensory deterioration such as discoloration, turbidity, sedimentation, and odor	通过 Meet	符合 Pass	
总迁移量 Overall migration	50% (体积分数) 乙醇 50%(Volume fraction) Ethanol 40°C ,10d	mg/dm <sup>2</sup>	≤ 10	< 3.0	符合 Pass	GB 31604.8 -2021
	95% (体积分数) 乙醇 95%(Volume fraction) Ethanol 40°C ,10d	mg/dm <sup>2</sup>	≤ 10	< 3.0	符合 Pass	
	异辛烷 Isooctane 20°C ,2d	mg/dm <sup>2</sup>	≤ 10	< 3.0	符合 Pass	
高锰酸钾消耗量 Consumption of potassium permanganate	蒸馏水 Distilled water 60°C , 2h	mg/kg	≤ 10	2.4	符合 Pass	GB 31604.2 -2016
重金属 (以Pb计) Heavy metals ( as lead )	4% (体积分数) 乙酸 4% (Volume fraction) Acetic acid 60°C , 2h	mg/kg	≤ 1	< 1	符合 Pass	GB 31604.9 -2016

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## 备注 Note :

1) 迁移试验条件以及食品模拟物由客户指定。

The migration test conditions and food simulants shall be specified by the customer

2) 迁移试验结果计算所采用的食品接触材料及制品的接触面积(S)与食品质量或体积(V)的比(S/V)应能够反映最严苛的实际使用情形。液态食品的密度应按照 1kg/L 计。

The ratio (S/V) of the contact area (S) of the food contact materials and products used in the migration test results to the quality or volume (V) of the food should be able to reflect the most stringent actual usage conditions. The density of liquid food should be calculated at 1kg/L.

3) 当 S/V 未知时, 采用 6dm<sup>2</sup> 食品接触材料及制品接触 1kg 的食品进行迁移试验结果计算。

When S/V is unknown, the migration test results are calculated using 6dm<sup>2</sup> food contact materials and products in contact with 1kg of food.

## 2. 双酚 A 迁移量 Migration of Bisphenol A

### 2.1 检测结果 Test Result:

限值依据 GB 4806.10-2016 《食品安全国家标准 食品接触用涂料及涂层》

Limit value reference to GB 4806.10-2016 "food safety standards for food contact and coating"

检测项目 Test Item	单位 Unit	检测结果 Test Result	LOD/ LOQ	限值 Limit	单项结论 Single Conclusion	检测方法 Test Method	
		01					
双酚 A 迁移量 Migration of Bisphenol A	50% (体积分数) 乙醇 50%(Volume fraction) Ethanol 60°C ,10d	mg/kg	< 0.01	0.01	≤ 0.6	符合 Pass	GB 31604.10 -2016

## 备注 Note:

1) LOD/LOQ : 检出限或定量限 / Limit of detection or Limit of quantitation

2) 食品模拟物和迁移条件由客户指定

Food simulation and migration conditions are specified by the customer

## 3. 三聚氰胺迁移量/Migration amount of melamine

### 3.1 检测结果 detection result:

限值依据 GB 4806.10-2016 《食品安全国家标准 食品接触用涂料及涂层》

Limit value reference to GB 4806.10-2016 "food safety standards for food contact and coating"

检测项目 Test Item	单位 Unit	检测结果 Test Result	LOD/ LOQ	限值 Limit	单项结论 Single Conclusion	检测方法 Test Method	
		01					
三聚氰胺迁移 量/Migration amount of melamine	50% (体积分数) 乙醇 50%(Volume fraction) Ethanol 60°C ,10d	mg/kg	< 0.5	0.5	≤ 2.5	符合 Pass	GB 31604.15 -2016

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## 备注 Note:

- 1) LOD/LOQ : 检出限或定量限 / Limit of detection or Limit of quantitation
- 2) 食品模拟物和迁移条件由客户指/Food simulation and migration conditions are specified by the customer

## 4. 邻苯二甲酸酯迁移量 Migration of Phthalate

## 4.1 检测结果 Test Result:

食品模拟物 Food simulant: 50% (体积分数) 乙醇/50%(Volume fraction)Ethanol

迁移条件 Conditions of migration: 60°C ,10d

Test Item 检测项目	CAS No.	检测结果 Result(mg/kg)	LOD/LOQ (mg/kg)	客户限值 Client Limit (mg/kg)	单项结论 Single Conclusio n	检测方法 Test Method
		01				
Dimethyl phthalate(DMP) 邻苯二甲酸二甲酯 (DMP)	131-11-3	< 0.1	0.1	不得检出 Not Detected	符合 Pass	GB 31604.30 -2016
Diethyl phthalate(DEP) 邻苯二甲酸二乙酯 (DEP)	84-66-2	< 0.1	0.1	不得检出 Not Detected	符合 Pass	
Diallyl phthalate(DAP) 邻苯二甲酸二烯丙酯 (DAP)	131-17-9	< 0.01	0.01	不得检出 Not Detected	符合 Pass	
Diisobutyl phthalate(DIBP) 邻苯二甲酸二异丁酯 (DIBP)	84-69-5	< 0.1	0.1	不得检出 Not Detected	符合 Pass	
Di-n-butyl phthalate(DBP) 邻苯二甲酸二丁酯 (DBP)	84-74-2	< 0.1	0.1	不得检出 Not Detected	符合 Pass	
Di-(2-methoxyethyl) phthalate(DMEP) 邻苯二甲酸二(2-甲氧基)乙酯 (DMEP)	117-82-8	< 0.1	0.1	不得检出 Not Detected	符合 Pass	
Bis (4-methyl-2-pentyl) phthalate(BMPP) 邻苯二甲酸二(4-甲基-2-戊基) 酯 (BMPP)	146-50-9	< 0.1	0.1	不得检出 Not Detected	符合 Pass	
Bis (2-ethoxyethyl) phthalate(DEEP) 邻苯二甲酸二(2-乙氧基)乙酯 (DEEP)	605-54-9	< 0.1	0.1	不得检出 Not Detected	符合 Pass	
Dipentyl phthalate(DPP) 邻苯二甲酸二戊酯 (DPP)	131-18-0	< 0.1	0.1	不得检出 Not Detected	符合 Pass	

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Test Item 检测项目	CAS No.	检测结果 Result(mg/kg)	LOD/LOQ (mg/kg)	客户限值 Client Limit (mg/kg)	单项结论 Single Conclusio n	检测方法 Test Method
		01				
Dihexyl phthalate(DNHP&DHXP) 邻苯二甲酸二己酯 (DHXP/DNHP)	84-75-3	< 0.1	0.1	不得检出 Not Detected	符合 Pass	
Butyl benzyl phthalate(BBP) 邻苯二甲酸丁基苄基酯 (BBP)	85-68-7	< 0.1	0.1	不得检出 Not Detected	符合 Pass	
Di-(2-butoxyethyl) phthalate(DBEP) 邻苯二甲酸二(2-丁氧基)乙酯 (DBEP)	117-83-9	< 0.1	0.1	不得检出 Not Detected	符合 Pass	
Dicyclohexyl phthalate(DCHP) 邻苯二甲酸二环己酯 (DCHP)	84-61-7	< 0.1	0.1	不得检出 Not Detected	符合 Pass	
Di(2-ethylhexyl) phthalate(DEHP) (DOP) 邻苯二甲酸二(2-乙基)己酯 (DEHP) (DOP)	117-81-7	< 0.1	0.1	不得检出 Not Detected	符合 Pass	
Diphenyl phthalate (DPhP) 邻苯二甲酸二苯酯 (DPhP)	84-62-8	< 0.1	0.1	不得检出 Not Detected	符合 Pass	
Di-n-octyl phthalate(DNOP) 邻苯二甲酸二正辛酯 (DNOP)	117-84-0	< 0.1	0.1	不得检出 Not Detected	符合 Pass	
Diisononyl phthalate(DINP) 邻苯二甲酸二异壬酯(DINP)	28553-12-0 68515-48-0	< 0.1	0.1	不得检出 Not Detected	符合 Pass	
Dinonyl phthalate(DNP) 邻苯二甲酸二壬酯 (DNP)	84-76-4	< 0.1	0.1	不得检出 Not Detected	符合 Pass	

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\*\*\* 报告结束 \*\*\*  
\*\*\* End of Report \*\*\*

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