



Report No.: MTL26070300305R02
报告编号: MTL26070300305R02

TEST REPORT

检测报告

Prepared for 申请单位:

JINHUA GAOLAN METAL PRODUCTS CO.,LTD

金华高澜金属制品有限公司

NO.33, LONGFENG STREET, ZHUCUN VILLAGE, LIUCHENG
SHE NATIONALITY TOWN, WUYI COUNTY, JINHUA CITY,
ZHEJIANG PROVINCE

浙江省金华市武义县柳城镇祝村龙峰街33号

Product Name: plastic cap

产品名称: 塑料盖

Brand Name: N/A

商标: N/A

Model Name: N/A

产品型号: N/A

Date of Test: Jul. 03, 2026 to Jul. 06, 2026

测试日期: 2026 年 7 月 3 日至 2026 年 7 月 6

日 Date of Report: Jul.10, 2026

报告日期: 2026 年 7 月 10 日

Report Number: MTL26070300305R02

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Prepared By 检测单位:

Shenzhen MTL Testing Technology Co., Ltd.

深圳市美测检测技术有限公司



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Applicant : JINHUA GAOLAN METAL PRODUCTS CO.,LTD
申请单位 : 金华高澜金属制品有限公司
Address : NO.33, LONGFENG STREET, ZHUCUN VILLAGE, LIUCHENG
: SHE NATIONALITY TOWN, WUYI COUNTY, JINHUA CITY,
: ZHEJIANG PROVINCE
地址 : 浙江省金华市武义县柳城镇祝村龙峰街33号

Sample name : plastic cap

样品名称 : 塑料盖

Product model : N/A

产品型号 : N/A

Brand Name : N/A

商标 : N/A

Date of Sample Received : Jul. 03, 2026

到样日期 : 2026 年 7 月 3 日

Testing Period : Jul. 03, 2026 to Jul. 06, 2026

测试日期 : 2026 年 7 月 3 日至 2026 年 7 月 6 日

Test Requested:

测试要求:

A. As specified by client, with reference to German Food, Articles of Daily Use and Feed Code of September, 2005 (LFGB), Section 30&31, Regulation EU 2020/1245 and 1935/2004/EC for:

据客户要求, 依据德国食品、日用物品和饲料法规 (LFGB) 2005 年 9 月, 第 30 和 31 部分, 欧盟法规 (EC) No 1935/2004 和 EU 2020/1245:

1. For material: PP-All items of LFGB

测试材料: 聚丙烯-LFGB 测试项目

Conclusion

结论:

PASS



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Technical Director

** Modified History 修改记录 **

Revision 修订	Description 内容	Issued Data 发布日期	Remark 备注
Revision 修订 1.0	Initial Test Report Release 初次检测报告发布		



Sample Description 样品描述 :

No. 编号	Material 材料	Name 名称
1	PP 聚丙烯	Black plastic shell 黑色塑料

Test Results (No.1) 测试结果 (编号 1) :

1-1. Overall Migration. 总迁移

Test method 检测方法 : EN 1186-1:2002 & EN 1186-3:2022.

Test Items 测试项目	Test Condition 测试条件	Result 结果			Requirement 要求 (mg/dm ²)
		The first 第一次	The second 第二次	The third 第三次	
Maximum extractable fraction in 3% Acetic Acid 3%醋酸迁移	70°C, 2h 70 摄氏度, 2 小时	<3.0	<3.0	<3.0	10
Maximum extractable fraction in Water 水迁移	70°C, 2h 70 摄氏度, 2 小时	<3.0	<3.0	<3.0	10
Note: mg/dm ² = milligram per square decimeter < = less than 备注: mg/dm ² = 毫克每平方米, < = 小于					



1-2. Specific migration for heavy metal 重金属的特定迁移

Test Method :EN 13130-1:2004, the analysis was performed by ICP-OES.

测试方法: EN 13130-1:2004, 采用 ICP-OES 进行分析。

Test Item 测试项目	Test condition 测试条件	Result 结果 (mg/kg)			Limit(mg/kg) 限值
		The first 第一次	The Second 第二次	The third 第三次	
Barium (Ba) 钡(Ba)	70℃,2h 3% Acetic Acid 70 摄氏度, 2 小时, 3%醋酸	<0.1	<0.1	<0.1	1
Cobalt (Co) 钴(Co)		<0.01	<0.01	<0.01	0.05
Copper (Cu) 铜(Cu)		<0.1	<0.1	<0.1	5
Iron (Fe) 铁(Fe)		<2	<2	<2	48
Lithium (Li) 锂(Li)		<0.01	<0.01	<0.01	0.6
Zinc (Zn) 锌(Zn)		<0.1	<0.1	<0.1	5
Aluminum(Al) 铝(Al)		<0.1	<0.1	<0.1	1
Manganese (Mn) 锰(Mn)		<0.01	<0.01	<0.01	0.6
Nickle(Ni) 镍(Ni)		<0.01	<0.01	<0.01	0.02
Lead(Pb) 铅(Pb)		<0.01	<0.01	<0.01	0.01
Cadmium(Cd) 镉(Cd)		<0.002	<0.002	<0.002	0.002
Arsenic(As) 砷(As)		<0.01	<0.01	<0.01	0.01
Mercury(Hg) 汞(Hg)		<0.01	<0.01	<0.01	0.01
Chromium(Cr)* 铬(Cr)		<0.01	<0.01	<0.01	0.01
Antimony(Sb) 锑(Sb)		<0.01	<0.01	<0.01	0.04
Europium(Eu) 铕(Eu)		<0.01	<0.01	<0.01	0.05
Gadolinium(Gd)		<0.01	<0.01	<0.01	0.05



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钆(Gd)				
Lanthanum(La) 镧(La)	<0.01	<0.01	<0.01	0.05
Terbium(Tb) 铽(Tb)	<0.01	<0.01	<0.01	0.05
Total (Eu+Gd+La+Tb) 总和(铕+钆+镧+铽)	<0.01	<0.01	<0.01	0.05

Note:

mg/kg = milligram per kilogram 毫克每千克 = ppm < = less than 小于

*The detection limit of total chromium shall be 0.01mg/kg. If there is evidence that hexavalent chromium is absent, the total chromium limit may be 3.6mg/kg.

*总铬检出限为 0.01mg/kg。如果有证据表明六价铬不存在, 则总铬限值可为 3.6mg/kg。

1-3. Specific migration of Primary Aromatic Amines**Test Method:** EN 13130-1:2004, the analysis was performed by LC-MS.**Test Condition:** 3% Acetic Acid 70°C, 2h

测试方法: EN 13130-1:2004, 采用 LC-MS 进行分析。

试验条件: 3%醋酸 70°C, 2h

Test Item 测试项目	CAS No. CAS 号	Limit (mg/kg) 限值	Results(mg/kg) 结果		
			1st 第一次	2nd 第二次	3rd 第三次
4-aminodiphenyl 4-氨基联苯	92-67-1	0.002	<0.002	<0.002	<0.002
Benzidine 联苯胺	92-87-5	0.002	<0.002	<0.002	<0.002
4-chloro-o-toluidine 4-氯邻甲苯胺	95-69-2	0.002	<0.002	<0.002	<0.002
2-naphthylamine 2-萘胺	91-59-8	0.002	<0.002	<0.002	<0.002
o-aminoazotoluene 邻氨基偶氮甲苯	97-56-3	0.002	<0.002	<0.002	<0.002
2-amino-4-nitrotoluene 2-氨基-4-硝基甲苯	99-55-8	0.002	<0.002	<0.002	<0.002
4-Chloroaniline 4-氯苯胺	106-47-8	0.002	<0.002	<0.002	<0.002
2,4-diaminoanisole 4-甲氧基-间苯二胺	615-05-4	0.002	<0.002	<0.002	<0.002
4,4'-diaminodiphenylmethane 4,4'-二氨基二苯甲烷	101-77-9	0.002	<0.002	<0.002	<0.002
3,3'-dichlorobenzidine	91-94-1	0.002	<0.002	<0.002	<0.002



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3,3-二氯联苯胺					
3,3'-dimethoxybenzidine 3,3'-二甲氧基联苯胺	119-90-4	0.002	<0.002	<0.002	<0.002
3,3'-dimethylbenzidine 3,3'-二甲基联苯胺	119-93-7	0.002	<0.002	<0.002	<0.002
4,4'-Methylene-bis(2-methylaniline) 3,3'-二甲基-4,4'-二氨基二苯甲烷	838-88-0	0.002	<0.002	<0.002	<0.002
p-cresidine 2-甲氧基-5-甲基苯胺	120-71-8	0.002	<0.002	<0.002	<0.002
4,4'-methylene-bis-(2-chloroaniline) 4,4'-亚甲基-二-(2-氯苯胺)	101-14-4	0.002	<0.002	<0.002	<0.002
4,4'-oxydianiline 4,4'-二氨基二苯醚	101-80-4	0.002	<0.002	<0.002	<0.002
4,4'-thiodianiline 4,4'-二氨基二苯硫醚	139-65-1	0.002	<0.002	<0.002	<0.002
o-toluidine 邻甲苯胺	95-53-4	0.002	<0.002	<0.002	<0.002
2,4-diaminotoluene 2,4-二氨基甲苯	95-80-7	0.002	<0.002	<0.002	<0.002
2,4,5-trimethylaniline 2,4,5-三甲基苯胺	137-17-7	0.002	<0.002	<0.002	<0.002
2-methoxyaniline 邻氨基苯甲醚	90-04-0	0.002	<0.002	<0.002	<0.002
4-aminoazobenzene 4-氨基偶氮苯	60-09-3	0.002	<0.002	<0.002	<0.002

Note:

mg/kg = milligram per kilogram = ppm < = less than

1-4.PAHs content 多环芳烃含量

Test method: With reference to AfPS GS 2019:01 PAK, by solvent extraction and analysis was performed by gas chromatographic-mass spectrometer (GC-MS)

测试方法:参照 AfPS GS 2019:01 PAK, 采用溶剂萃取, 气相色谱-质谱联用(GC-MS)分析。

Item 测试项目	CAS No. CAS 号	Unit 单位	MDL 检出限	Results 结果			Limit 限值
				1 st extractives 第一次提取	2 nd extractives 第二次提取	3 rd extractives 第三次提取	
Naphthalene (NAP) 萘	91-20-3	mg/kg	0.2	N.D.	N.D.	N.D.	<1
Acenaphthylene (ANY) 芴	208-96-8	mg/kg	0.2	N.D.	N.D.	N.D.	/



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Acenaphthene (ANA) 芴	83-32-9	mg/kg	0.2	N.D.	N.D.	N.D.	/
Fluorene (FLU) 芴	86-73-7	mg/kg	0.2	N.D.	N.D.	N.D.	/
Phenanthrene (PHE) 菲	85-01-8	mg/kg	0.2	N.D.	N.D.	N.D.	/
Anthracene (ANT) 蒽	120-12-7	mg/kg	0.2	N.D.	N.D.	N.D.	/
Fluoranthene (FLT) 荧蒽	206-44-0	mg/kg	0.2	N.D.	N.D.	N.D.	/
Pyrene (PYR) 芘	129-00-0	mg/kg	0.2	N.D.	N.D.	N.D.	/
ANY+ANA+FLU+PHE+ANT+FLT+PYR 芴+芴+芴+菲+蒽+荧蒽+芘				N.D.	N.D.	N.D.	N.D.
Benzo(a)anthracene (BaA) 苯并[a]蒽	56-55-3	mg/kg	0.2	N.D.	N.D.	N.D.	<0.2
Chrysene (CHR) 蒽	218-01-9	mg/kg	0.2	N.D.	N.D.	N.D.	<0.2
Benzo(b)fluoranthene (BbF) 苯并[b]荧蒽	205-99-2	mg/kg	0.2	N.D.	N.D.	N.D.	<0.2
Benzo(k)fluoranthene (BkF) 苯并[k]荧蒽	207-08-9	mg/kg	0.2	N.D.	N.D.	N.D.	<0.2
Benzo(a)pyrene (BaP) 苯并[a]芘	50-32-8	mg/kg	0.2	N.D.	N.D.	N.D.	<0.2
Indeno(1,2,3-cd) pyrene (IPY) 茚并[1,2,3-cd]芘	193-39-5	mg/kg	0.2	N.D.	N.D.	N.D.	<0.2
Dibenzo(a,h)anthracene (DBA) 二苯并[a, h]蒽	53-70-3	mg/kg	0.2	N.D.	N.D.	N.D.	<0.2
Benzo(g,h,i)perylene (BPE) 苯并[g,h,i]花(二苯并[a,h]芘)	191-24-2	mg/kg	0.2	N.D.	N.D.	N.D.	<0.2
Benzo(j)fluoranthene 苯并[j]荧蒽	205-82-3	mg/kg	0.2	N.D.	N.D.	N.D.	<0.2
Benzo(e)pyrene 苯并[e]芘	192-97-2	mg/kg	0.2	N.D.	N.D.	N.D.	<0.2
Total content of PAHs	/	mg/kg	/	N.D.	N.D.	N.D.	<1



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PAHs 总含量						
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- Note:** 1. N.D.=not detected (less than method detection limit) 未检测到(低于方法检测限值)
2. MDL=method detection limit 方法检测限
3. 0.1%, w/w=1000mg/kg 毫克每千克=1000ppm

1-5. Total Chromium, Hafnium, Vanadium and Zirconium Content 总铬、铪、钒和锆含量

Method: Sample was digested with acid mixture and analyzed by Inductively Coupled Argon Plasma Spectrometer / Inductively Coupled Plasma Mass Spectrometer.

方法:用混合酸消化样品, 采用电感耦合氩等离子体质谱仪/电感耦合等离子体质谱仪进行分析

Item 项目	MDL 检出限	Results 结果			Limit 限值
		1 st Migration 第一次迁移	2 nd Migration 第二次迁移	3 rd Migration 第三次迁移	
Chromium (Cr) 铬(Cr)	0.1	N.D.	N.D.	N.D.	10
Hafnium (Hf) 铪(Hf)	0.1	N.D.	N.D.	N.D.	100
Vanadium (V) 钒(V)	0.1	N.D.	N.D.	N.D.	20
Zirconium (Zr) 锆(Zr)	0.1	N.D.	N.D.	N.D.	100

- Note:** 1. N.D.=not detected (less than method detection limit) 未检测到(低于方法检测限值)
2. MDL= method detection limit 方法检测限
3. As specified by client, only test the designated sample 根据客户的要求, 只测试指定的样品
4. The limit refers to BfR Recommendation VII. 该限值参照 BfR 建议 VII.

1-6.Total Lead and Cadmium Content 总铅和镉含量

Test Method: Test Method: Acid digestion, analysis was performed by ICP-OES.

试验方法: 酸消化, ICP-OES 分析。

Test Items 检测项目	Unit 单位	Results 结果	MDL 检出限	Limit 限值
Lead(Pb) 总铅	mg/kg	ND	10	Absent 没有
Cadmium(Cd) 镉	mg/kg	ND	10	Absent 没有

- Note:** 1. N.D.=not detected (less than method detection limit) 未检测到(低于方法检测限值)
2. mg/kg = milligram per kilogram 毫克每千克=ppm
3. MDL= method detection limit 方法检测限



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Photograph of Sample 样品图片

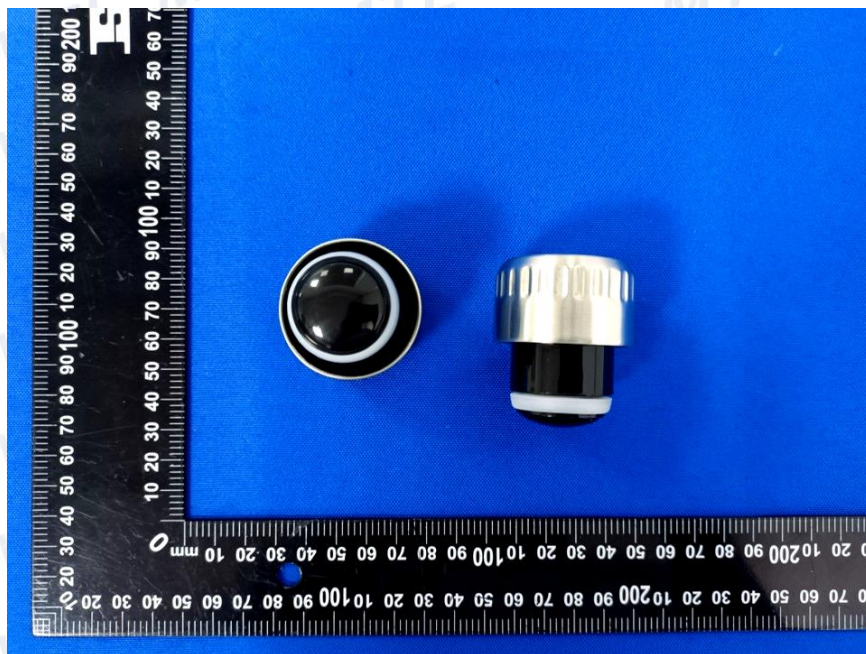


FIGURE 1 图片 1

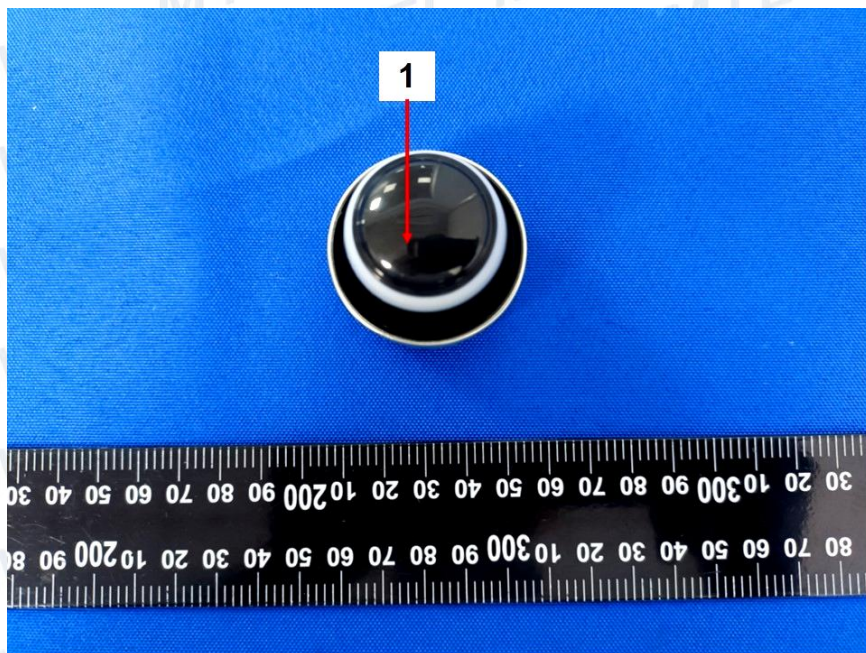


FIGURE 2 图片 2

End of Report



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报告结束