

检测报告

TEST REPORT



报告编号

AL25081025401EN

REPORT NO.

样品名称

Plastic anti-theft bottle cap

SAMPLE NAME

委托单位

TAIZHOU HUANGYAN BAITONG
PLASTIC CO.,LTD

APPLICANT

检验类别

Type inspection

TEST CATEGORY


上海乐朗检测技术有限公司
SHANGHAI LELANGTEK TESTING TECHNOLOGY CO., LTD.

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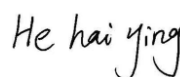
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Sample Name	Plastic anti-theft bottle cap	Test Category	Type inspection
Size/Model/Specification	/	Material	PE
Date of Manufacture/ Batch No.	/	Grade	Qualified product
Applicant	TAIZHOU HUANGYAN BAITONG PLASTIC CO.,LTD	Trademark	/
Address	No.99 Dejian Road, Jiangkou street, Huangyan district, Taizhou city, Zhejiang province, China	Sample Arrival	Express Delivery
Manufacturer	TAIZHOU HUANGYAN BAITONG PLASTIC CO.,LTD	Sample Condition	No visible defects or contamination
Date Received	Aug. 26, 2025	Test Period	Aug. 26, 2025 to Sep. 12, 2025
Test Requirements	GB/T 17876-2010, GB 4806.7-2023		
Test Items	A total of 17 items, see the inner page of the report (all items specified in the implementation rules of the product production license have been covered).		
Decision Criteria	GB/T 17876-2010, GB 4806.7-2023, Detailed Rules for the Implementation of the Production License for Food-related Products (Part I) : Food plastic packaging containers, tools and other products section		
Test Conclusion	According to the above test basis, the samples were tested, and the test results of the tested items conformed to the relevant requirements of decision criteria. <div style="text-align: right; margin-top: 20px;">  <p>Special seal for inspection and testing Approved date: Dec. 23, 2025</p> </div>		
Remarks	Sample Quantity : 40pieces+5 bottles; The nominal contact material of the food layer of the test sample entrusted by the client is "PE (polymer of ethylene and 1-hexene)", corresponding to the number 152 in Appendix A of GB 4806.7-2023"; Product Unit: Container; Product variety: Plastic anti-theft bottle cap .		

Prepared by:



Inspected by:



Approved by:



Summary of test results:

No.	Test Items	Requirement	Test Results	Item Conclusion	Remarks	
1	Appearance	Product surface	It is well-formed, structurally complete, and has a smooth surface without obvious shrinkage, bubbles, burrs, or defects .	Meet	PASS	/
		Color	The color is uniform .	Meet	PASS	
		Pollution	No black spots, no rust, oil stains or other foreign matter, and no obvious odor .	Meet	PASS	
		Anti-theft ring	The anti-theft ring is connected to the cover by a connecting bridge, and the connecting bridge is intact .	Meet	PASS	
		Printing	The printing on the bottle cap has distinct and clear colors, and the deviation between the center of the printed pattern on the top surface and the center of the outer diameter of the bottle cap is no more than 1.5mm .	Not applicable	/	
2	Dimensions (mm)	Maximum outer diameter (M)	± 0.80	-0.11~ +0.09	PASS	/
		Bottle cap height (H)	± 0.74	-0.11 ~ +0.11	PASS	
		Thread top diameter (E)	± 0.80	-0.20 ~ +0.17	PASS	
		Outer diameter of anti-slip teeth (K)	± 0.80	-0.11~ +0.09	PASS	
		Inner plug outer diameter (P)	± 0.70	-0.14 ~ +0.13	PASS	
3	Printed pattern adhesion performance	The printed pattern on the bottle cap should not have any obvious peeling off and should not affect the integrity of the pattern.	Not applicable	/	No printing	



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No.	Test Items		Requirement	Test Results	Item Conclusion	Remarks
4	Sealing performance	Non-carbonate cap	No air leakage at 200 kPa The lid does not come off at 350 kPa.	Meet	PASS	/
		Carbonate cap	It does not leak air at 690 kPa and does not detach from the cover at 1207 kPa.	Not applicable	/	Non-carbonate cap
5	Thermal stability performance	Non-carbonate cap Low-temperature resistance performance	No cracking, no deformation Leak-proof when inverted	Meet	PASS	/
		Carbonate cap Low-temperature resistance performance	No cracking, no deformation, Inverted, it does not leak air or liquid.	Not applicable	/	Non-carbonate cap
6	Drop performance	Non-carbonate cap	No cap removal, no leakage	Meet	PASS	/
		Carbonate cap	No cap removal, no leakage	Not applicable	/	Non-carbonate cap
7	Impact resistance		The bottle cap and crack do not fall off.	Meet	PASS	/
8	Turn on torque performance	Bottle caps smaller than 38mm	0.6 N·m ~ 2.2 N·m	0.70N·m ~ 0.85N·m	PASS	/
9	Anti-theft ring Physical properties	Capping performance	The anti-theft ring does not break after the cap is sealed.	Meet	PASS	/
		Anti-theft performance	When the bridge is opened and then resealed, it should show obvious damage.	Meet	PASS	/
		Torque	Not greater than 2.2 N·m	0.90N·m ~ 1.10N·m	PASS	/

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No.	Test Items		Requirement	Test Results	Item Conclusion	Remarks	
10	Seborrheic performance		There should be no lipids on the surface of the liquid .	Meet	PASS	/	
11	Safe activation performance		When the bottle cap is opened counterclockwise until it is completely	Not applicable	/	Non-carbonate cap	
12	Sensory requirements	Sensory	Normal luster,no foreign odor or impurity, etc.	Meet	PASS	/	
		Soaking solution	No turbidity, precipitation, odor and other sensory performance deterioration.	Meet	PASS		
13	Total migration (mg/dm ²)	10% ethanol, 40°C, 10days	≤10	<3.0	PASS	/	
14	Potassium permanganate consumption(Distilled water, 60°C, 2h)(mg/kg)		≤10	< 1.0	PASS	/	
15	Chemical Indicators	Heavy metals (based on Pb) (4% acetic acid, 60°C, 2h) (mg/ kg)		≤1	<1	PASS	/
16	Decolorization test	Wipe off color	Negative	Not applicable	/	No colorant added	
		Immersion solution coloring	Negative	Not applicable	/		
17	Total migration of aromatic primary amines (mg/ kg)	10% ethanol, 60°C, 10days	Non-detectable (DL= 0.01mg/kg)	Not detected (DL: 0.01)	PASS	/	

Remark:

This report is the English translation of the Chinese report AL25081025401 . In case of any discrepancy, please refer to the Chinese version.

***** End of Report *****



DECLARATION

- (1) *The information of applicant and sample information as listed on the first page of this test report were all provided by the client. The client shall be responsible for the representativeness of sample and authenticity of materials, for which our company shall bear no responsibilities.*
- (2) *The test data of this test report is only responsible for the tested sample. In principle, the report issued by our company will not judge the test results, unless the customer has special requirements, our company will not bear any economic and legal responsibilities for the direct or indirect impact.*
- (3) *The client shall assume the risks in production, storage, drawing and transferring of sample, and our company shall not assume the risk of incorrect inspection result incurred by these activities.*
- (4) *The judgment method of determining the conformity in this test report is according to the measured value without considering the risk caused by uncertainty, unless otherwise clearly stipulated in special agreement, standard or specification. The client shall assume the risk caused by this judgment method, and our company shall not bear related responsibilities.*
- (5) *If there is any dissent to the test data by the client, please submit the written application for reexamination to the company within fifteen working days from the issue date of the report.. To the test items which cannot be retested, the client may have to give up the dissent right.*
- (6) *The client to return the sample shall notify our company in writing in dealing with entrusting of inspection, and shall retrieve the remaining inspection sample within 30 days after receiving the test report, unless otherwise agreed upon. If the client fails to notify us of returning the sample in writing, our company is entitled to dispose of the remaining inspection sample as per our company's sample disposition stipulations 1 month after issuing the inspection report. If the sample's quality does not allow reserving, our company may immediately dispose of it after issuing the inspection report.*
- (7) *Lelangtek guarantees the objectivity and fairness of test, and carries out confidentiality obligations on business secrets such as business information, technical documents and so on.*
- (8) *This test report is invalid without the signature of the approver, special inspection stamp and paging seal of our organization, and Data erasure invalid.*
- (9) *This test report cannot be copied in any way without the written permission of our company. The test report which is approved to be copied is only effective after duplicated in full text and stamped by our company.*
- (10) *Reports of Findings are issued on the basis of information. documents and samples provided by, or on behalf of, Client and solely for the benefit of Client who is responsible for acting as it sees fit on the basis of such Reports of Findings. Neither the Company nor any of its officers, employees, agents or subcontracts shall be labile to Client nor any third party for any actions taken or not taken on the basis of such Reports of Findings nor for any incorrect results arising from unclear ,erroneous, incomplete, misleading or false information provided to the Company.*
- (11) *The Company shall not be labile for any delayed, partial or total nonperformance of the services arsing directly or indirectly from any event outside the Company's control, including but not limited to failure by the Client to comply with any of its obligations.*
- (12) *In the event of any claim of loss, damage or other reason, the compensation of the Company shall not exceed three times of the subject service charge of the subject sample in any case for loss, damage or claim of any kind.*
- (13) *In case of any discrepancy between the English and Chinese versions of the Terms of Service, the Chinese version shall prevail.*
- (14) *Unless otherwise specified, the compliance determination of this report use the Binary Statement for Simple Acceptance Rule (w=0) in reference to ILAC-G8:09/2019 and CNAS-GL015:2022.*

