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中国认可  
国际互认  
检测  
TESTING  
CNAS L0098

# 检验报告

## Test Report

报告编号

(2025)GSJ-X1349Y

Report No.

样品名称

BOPA FILM-TSA

Name of sample

委托单位

XIAMEN CHANGSU INDUSTRIAL CO., LTD.

Consigner

受检单位

/

Inspected entity

检验类别

Entrust test

Test category



NPQTC

### 福建省产品质量检验研究院

Fujian Inspection and Research Institute for Product Quality

### 国家塑料制品质量检验检测中心（福州）

National Quality Inspection and Testing Center of Plastic Product(Fuzhou)

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**Fujian Inspection and Research Institute for Product Quality(FQII)**  
**National Quality Inspection Testing Center of Plastic Product(Fuzhou)**

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<p><b>Applicant:</b>                  Name:                  XIAMEN CHANGSU INDUSTRIAL CO., LTD.                  Address:                  NO.268.WENGJIAO ROAD, HAICANG DISTRICT,                  XIAMEN, CHINA                  Phone No.:/                  Fax No.:/                  Post Code:361026                  E-mail:/'</p>	<p><b>Sample:</b>                  Name: BOPA FILM-TSA                  Trade Mark:/'                  Type/Model: mm :210×0.015                  Sample grade:/'                  Batch number (No.):/'                  Production Date:/'                  Manufacturer:/'                  Amount:200g                  Date Received:2025-07-21                  State Received: The samples are fit for the requests of testing.</p>		
<b>Test Specification(s)</b>	GB/T 20218-2021 <i>Biaxially oriented polyamide (nylon) film</i> GB 4806.7-2023 <i>National Food Safety Standards Plastic Materials and Products for Food Contact</i>		
<b>Conclusion</b>	The tested items of the sample are complied with the requirements of GB/T 20218-2021 and GB 4806.7-2023. <div style="text-align: center;">   <p>(Special Seal for Inspection and Testing)                      Date:2025-08-11</p> </div>		
<b>Note</b>	(See next page)		
<b>Test Date</b>	2025-07-21~2025-08-08	<b>Test Location</b>	Mawei base

Approved by:

张号

Checked by :

张号

Tested by:

陈秋莉

Note: This report consists of the cover page, the title page and the body, which shall not be reproduced in part. The reproduced report is invalid unless re-affixed the special seal for test report.

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Table 1. Appearance,dimension, physical and mechanical properties

Inspection Item		Unit	Technical Index	Inspection Result
Appearance		/	Fit for the requirement of the clause 3.1.2	Pass
Average deviation of thickness		%	±3	0
Limit deviation of thickness		%	±10	0
Width deviation		mm	+4 0	0
Tensile strength	MD	MPa	≥180	215
	TD			273
Nominal tensile strain	MD	%	≤180	103
	TD			96
Thermal shrinkage rate	MD	%	≤3.0	-1.2
	TD		≤2.0	-0.8
Coefficient of kinetic friction (non-treated side/ non-treated side)		/	≤0.6	0.23
Wetting tension (treated side)		mN/m	≥50	62
Haze		%	≤7.0	2.2
Oxygen transmission rate		cm <sup>3</sup> /(m <sup>2</sup> ·d·Pa)	≤10.0×10 <sup>-4</sup>	5.3×10 <sup>-4</sup>

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Table 2.The chemical and hygienic indexes

Inspection Item		Unit	Technical Index	Inspection Result
Overall migration (reflux, 2h then 40°C, 10d)	10% (volume fraction) ethanol	mg/dm <sup>2</sup>	≤10	3
	4% (volume fraction) acetic acid		≤10	3
	95% (volume fraction) ethanol (vegetable oil substitution)		≤10	3
Potassium permanganate consumption (distilled water), 60°C, 2h		mg/kg	≤10	1
Heavy metal by Pb 4%(volume fraction)acetic acid, 60°C, 2h			≤1	<1
SML(T) (based on caprolactam) (reflux, 8h then 60°C, 10d)	10% (volume fraction) ethanol	mg/kg	≤15	ND(QL:1.0)
	4% (volume fraction) acetic acid		≤15	ND(QL:1.0)
	95% (volume fraction) ethanol (vegetable oil substitution)		≤15	ND(QL:1.0)
Sensory requirement	Sense	/	The color is normal, no peculiar smell, no impurity, etc.	Pass
	Soaking solution	/	The liquid was not turbid, precipitation, odour and other sensory deterioration	Pass

Remark: Provided by applicant: 1. The manufacturer is XIAMEN CHANGSU INDUSTRIAL CO., LTD.; 2. No colorants were added to plastic material, CAS Number:25038-54-4; Anticipated contact food: All food types; Use condition :121°C sterilization 120min, storage at room temperature for ≥180d; S/V unknown when expected or actual used; Sample usage:disposable.

**\*\*\*\*\*End of Test Report\*\*\*\*\***