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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-X1167Y

Report No.

样品名称

BOPA FILM-EHA

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）

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国家塑料制品



福建

Fujian Inspection and Research Institute for Product Quality(FQII)
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Applicant: Name: XIAMEN CHANGSU INDUSTRIAL CO., LTD Address: NO.268.WENGJIAO ROAD, HAICANG DISTRICT, XIAMEN, CHINA Phone No.:/ Fax No.:/ Post Code:361026 E-mail:/		Sample: Name: BOPA FILM-EHA Trade Mark:/ Type/Model: Category B / mm : 210×0.015 Sample grade:/ Batch number (No.):/ Production Date:/ Manufacturer:/ Amount:200g Date Received:2025-06-21 State Received: The samples are fit for the requests of testing.	
Test Specification(s)		Q/XMCS 001-2024 <i>Biaxially oriented ethylene-vinyl alcohol polymer nylon BO (EVOH-PA) co-extruded high barrier film</i> (Enterprise Standard of XIAMEN CHANGSU INDUSTRIAL CO.,LTD) GB 4806.7-2023 <i>National Food Safety Standards Plastic Materials and Products for Food Contact,etc.</i> (The remaining test methods are listed in the continuation page)	
Conclusion		The tested items of the sample are complied with the requirements of Q/XMCS 001-2024 and GB 4806.7-2023.   (Special Seal for Inspection and Testing) Date:2025-07-11	
Note		(See next page)	
Test Date	2025-06-21~2025-07-11	Test Location	Mawei base


Approved by:



Checked by:



Tested by:



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Table 1. The appearance, dimensions and the physical and mechanical properties

Inspection Item		Unit	Technical Index (Category B)	Inspection Result	Inspection Method
Appearance		/	No stains and impurities on the surface of the film	Pass	Q/XMCS 001-2024
Average deviation of thickness		%	±3.0	0	Q/XMCS 001-2024 GB/T 6672-2001
Limit deviation of thickness		%	±10.0	0	
Width deviation		mm	+4 0	0	GB/T 6673-2001
Tensile strength	MD	MPa	≥180	207	Q/XMCS 001-2024 GB/T 1040.3-2006
	TD	MPa	≥180	218	
Nominal tensile strain	MD	%	≤180	109	
	TD	%	≤180	97	
Thermal shrinkage rate	MD	%	≤3.0	-0.5	Q/XMCS 001-2024 GB/T 12027-2004
	TD	%	≤2.0	-0.5	
Haze		%	≤5.0	2.7	GB/T 2410-2008 (Method A)
Dynamic coefficient of friction (non-treated side/ non-treated side)		/	≤0.55	0.34	GB/T 10006-2021
Wetting tension (treated side)		mN/m	≥50	62	GB/T 14216-2008
Oxygen transmission		cm ³ / (m ² ·d·Pa)	≤8.0×10 ⁻⁵	6.2×10 ⁻⁵	GB/T 1038.1-2022 (pressure sensor method)



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Table 2.The chemical and hygienic indexes

Inspection Item		Unit	Technical Index	Inspection Result	Inspection Method
Overall migration (reflux 2h ,then 40°C,10d)	10%(volume fraction)ethanol	mg/dm ²	≤10	2	GB 31604.8-2021
	4%(volume fraction) acetic acid	mg/dm ²	≤10	3	GB 31604.8-2021
	95%(volume fraction)ethanol (vegetable oil substitution)	mg/dm ²	≤10	2	GB 31604.8-2021
Potassium permanganate consumption (distilled water),60°C,2h		mg/kg	≤10	<1	GB 31604.2-2016
Heavy metal by Pb 4%(volume fraction)acetic acid,60°C,2h		mg/kg	≤1	<1	GB 31604.9-2016 (First method)
SML(T) (based on caprolactam) (reflux, 8h then 60°C, 10d)	10%(volume fraction)ethanol	mg/kg	≤15	ND(QL: 1.0)	GB 31604.19-2016
	4%(volume fraction) acetic acid	mg/kg	≤15	ND(QL: 1.0)	GB 31604.19-2016
	95%(volume fraction)ethanol (vegetable oil substitution)	mg/kg	≤15	ND(QL: 1.0)	GB 31604.19-2016
Vinyl acetate migration (reflux, 8h then 60°C, 10d)	10%(volume fraction)ethanol	mg/kg	≤12	ND(DL:0.1)	GB 31604.20-2016
	4%(volume fraction) acetic acid	mg/kg	≤12	ND(DL:0.1)	GB 31604.20-2016
	95%(volume fraction)ethanol (vegetable oil substitution)	mg/kg	≤12	ND(DL:0.1)	GB 31604.20-2016
Sensory requirement	Sense	/	The color is normal, no peculiar smell, no impurity ,etc.	Pass	GB 4806.7-2023
	Soaking solution	/	The liquid was not turbid, precipitation, odour and other sensory deterioration	Pass	GB 4806.7-2023

Note: The enterprise standard of Q/XMCS 001-2024 is not recognized by CMA and CNAS.

Remark:Provided by applicant: 1. The manufacturer is XIAMEN CHANGSU INDUSTRIAL CO., LTD.; 2. No colorants were added, CAS Number: 25038-54-4; expected contact food: All kind; use condition :121°C sterilization 120min,storage at normal atmospheric temperature for 180d;4)S/V unknown when expected or actual used; sample usage:disposable.

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

检测



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