

TEST REPORT

No. : GZMR231002908802

Date : Oct 13, 2023

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CUSTOMER NAME: SHANGHAI PUDI PACKAGING MATERIALS CO.,LTD.
ADDRESS: NO.568 YANGYUE ROAD NANQIAOTOWN FENGXIAN DISTRICT
SHANGHAI CHINA

Sample Name : DEGRADABLE WINDING FILM
Material : PE

Above information and sample(s) was/were submitted and confirmed by the client. SGS, however, assumes no responsibility to verify the accuracy, adequacy and completeness of the sample information provided by client.

SGS Ref. No. : GZP23-015378
Date of Receipt : Oct 09, 2023
Testing Start Date : Oct 09, 2023
Testing End Date : Oct 13, 2023
Test result(s) : For further details, please refer to the following page(s)
(Unless otherwise stated the results shown in this test report refer only to the sample(s) tested)

Signed for
SGS-CSTC Standards Technical
Services Co., Ltd. Guangzhou Branch

Kelly Lee
Authorized signatory



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Summary of Results:

No.	Test Item	Test Method	Result		Conclusion
1	Width	BB/T 0024-2018 Section 6.2.1	498mm		/
2	Thickness	BB/T 0024-2018 Section 6.2.2 & GB/T 6672-2001	0.018mm		/
3	Core Inner Diameter	BB/T 0024-2018 Section 6.2.3	77mm		/
4	Core Length	BB/T 0024-2018 Section 6.2.4	520mm		/
5	Roll Weight	BB/T 0024-2018 Section 6.2.5	2.6kg		/
6	Breaking Force and Elongation at Break	BB/T 0024-2018 Section 6.4.1 & GB/T 1040.3-2006	See result		/
7	Cling	BB/T 0024-2018 Section 6.4.2, Appendix A	See result		/
8	Elastic Recovery, Permanent Deformation, Tensile Retention and F Force Value	BB/T 0024-2018 Section 6.4.3, Annex B	See result		/
9	Puncture Resistance	BB/T 0024-2004 Section 6.4.4, Annex C	Breaking Force	16.3N	/
			Elongation	53mm	
10	Deviation of Mass per Unit Area	BB/T 0024-2018 Section 6.4.5	See result		/

Note: Pass : Meet the requirements;
Fail : Does not meet the requirements;
/ : Not Apply to the judgment.



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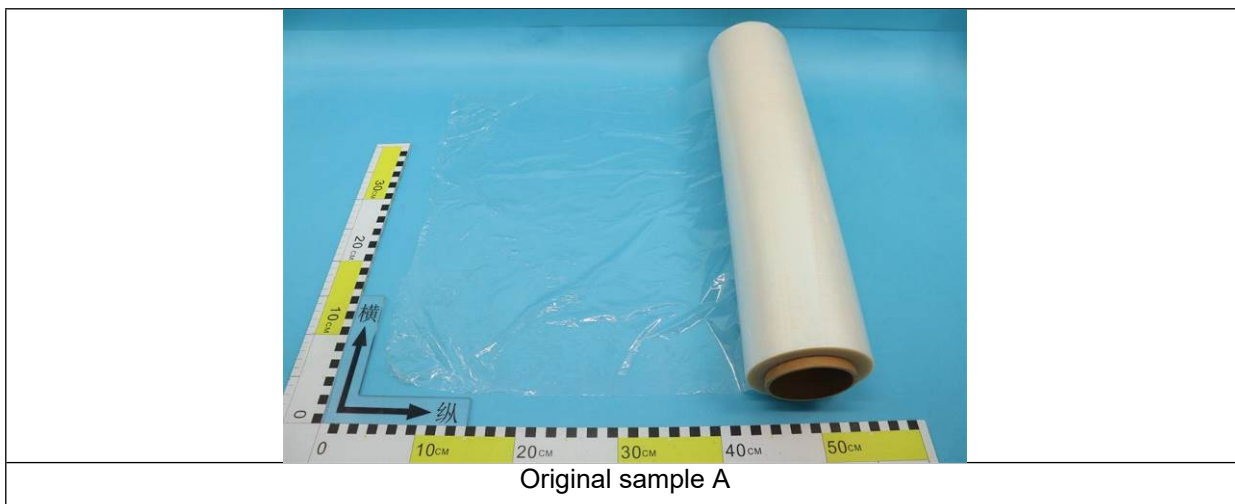
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Original Sample Photo:



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1.Test Item: Width

Sample Description: Film

Test Method: BB/T 0024-2018 Section 6.2.1

Test Condition:

Measure with Straight Steel Ruler

Lab Environmental Condition: $(23 \pm 2)^{\circ}\text{C}$, $(50 \pm 5)\%\text{RH}$

Test Result:

Test Item	Test Result
Width	498mm

Equipment Information:

Equipment	Model	Equipment No.	Calibration date	Next Calibration date
Straight Steel Ruler	600mm	GZMR-PL-E017-11	2023-01-17	2024-01-16



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2.Test Item: Thickness

Sample Description: Film

Test Method: BB/T 0024-2018 Section 6.2.2 & GB/T 6672-2001

Test Condition:

Measure with Thickness meter

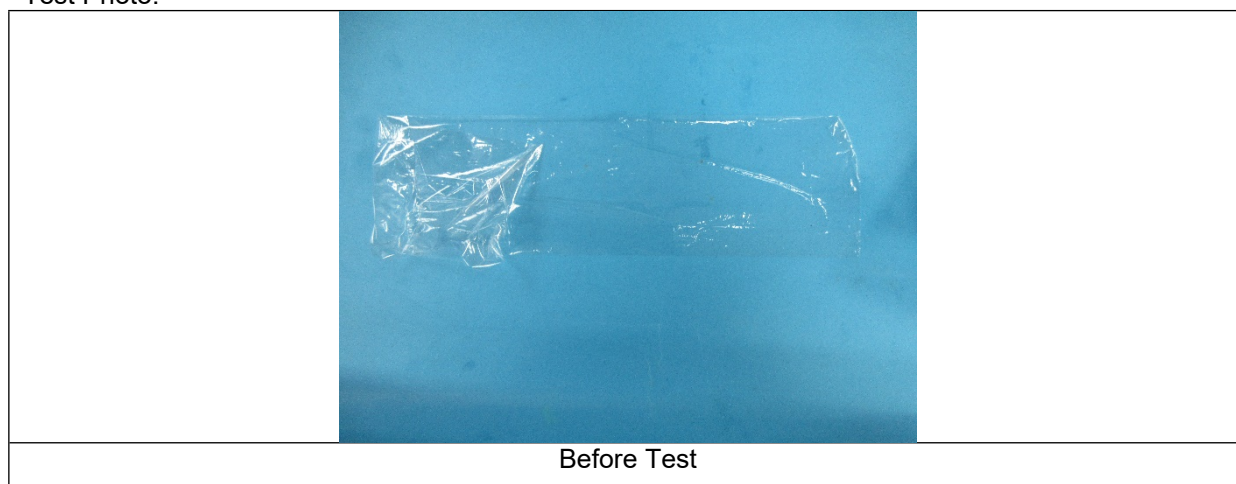
Lab Environmental Condition: $(23 \pm 2)^{\circ}\text{C}$, $(50 \pm 5)\%\text{RH}$

Test Result:

Test Item	Test Result
Thickness	0.018mm

Note: Test specimens were cut from the sample.

Test Photo:



Equipment Information:

Equipment	Model	Equipment No.	Calibration date	Next Calibration date
Thickness meter	TG-3130-A3	GZMR-RL-E115	2023-05-09	2024-05-08



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3.Test Item: Core Inner Diameter

Sample Description: Film

Test Method: BB/T 0024-2018 Section 6.2.3

Test Condition:

Measure with Digital Vernier Caliper

Lab Environmental Condition: $(23 \pm 2)^{\circ}\text{C}$, $(50 \pm 5)\%\text{RH}$

Test Result:

Test Item	Test Result
Core Inner Diameter	77mm

Equipment Information:

Equipment	Model	Equipment No.	Calibration date	Next Calibration date
Digital Vernier Caliper	CD-20AX	GZMR-PL-E041-16	2023-02-11	2024-02-10



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4. Test Item: Core Length

Sample Description: Film

Test Method: BB/T 0024-2018 Section 6.2.4

Test Condition:

Measure with Straight Steel Ruler

Lab Environmental Condition: $(23 \pm 2)^{\circ}\text{C}$, $(50 \pm 5)\% \text{RH}$

Test Result:

Test Item	Test Result
Core Length	520mm

Equipment Information:

Equipment	Model	Equipment No.	Calibration date	Next Calibration date
Straight Steel Ruler	600mm	GZMR-PL-E017-11	2023-01-17	2024-01-16



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5.Test Item: Roll Weight

Sample Description: Film

Test Method: BB/T 0024-2018 Section 6.2.5

Test Condition:

Measure with Electron Balance

Lab Environmental Condition: $(23 \pm 2)^{\circ}\text{C}$, $(50 \pm 5)\% \text{RH}$

Test Result:

Test Item	Test Result
Roll Weight	2.6kg

Equipment Information:

Equipment	Model	Equipment No.	Calibration date	Next Calibration date
Electron Balance	JJ8000A	GZMR-PL-E079	2023-05-17	2024-05-16



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6.Test Item: Breaking Force and Elongation at Break

Sample Description: Film

Test Method: BB/T 0024-2018 Section 6.4.1 & GB/T 1040.3-2006

Test Condition:

Specimen: Type 2

Specimen width: 15mm

Specimen thickness: 0.018mm

Testing speed:250mm/min

Initial distance between grips: 100mm

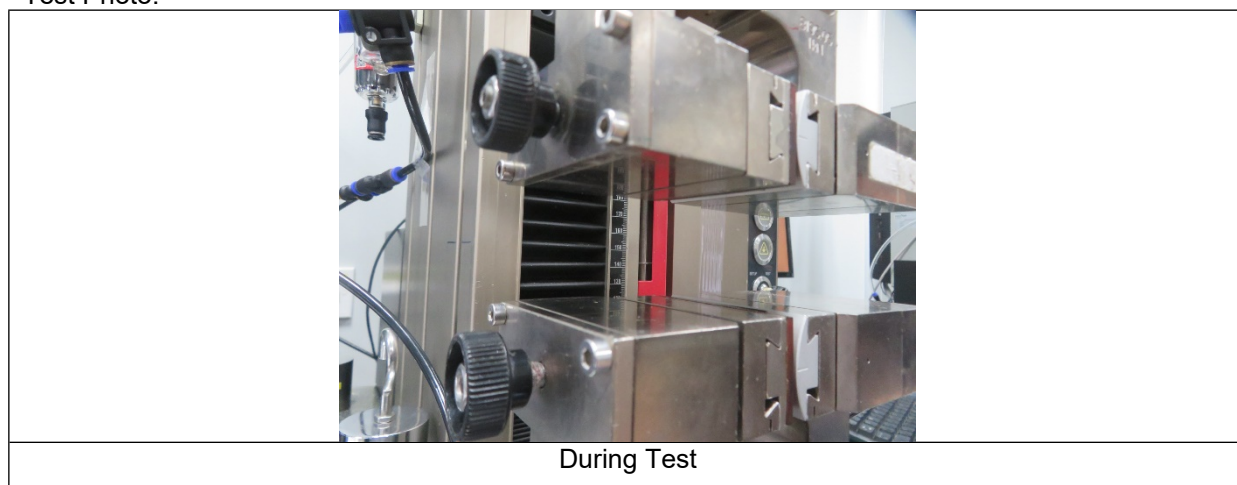
Lab Environmental Condition: (23±2)℃, (50±5)%RH

Test Result:

Test Item	Test Result	
Breaking Force	Transverse	5.8N
	Lengthways	20.2N
Elongation at Break	Transverse	670%
	Lengthways	320%

Note: Test specimens were cut from the sample.

Test Photo:



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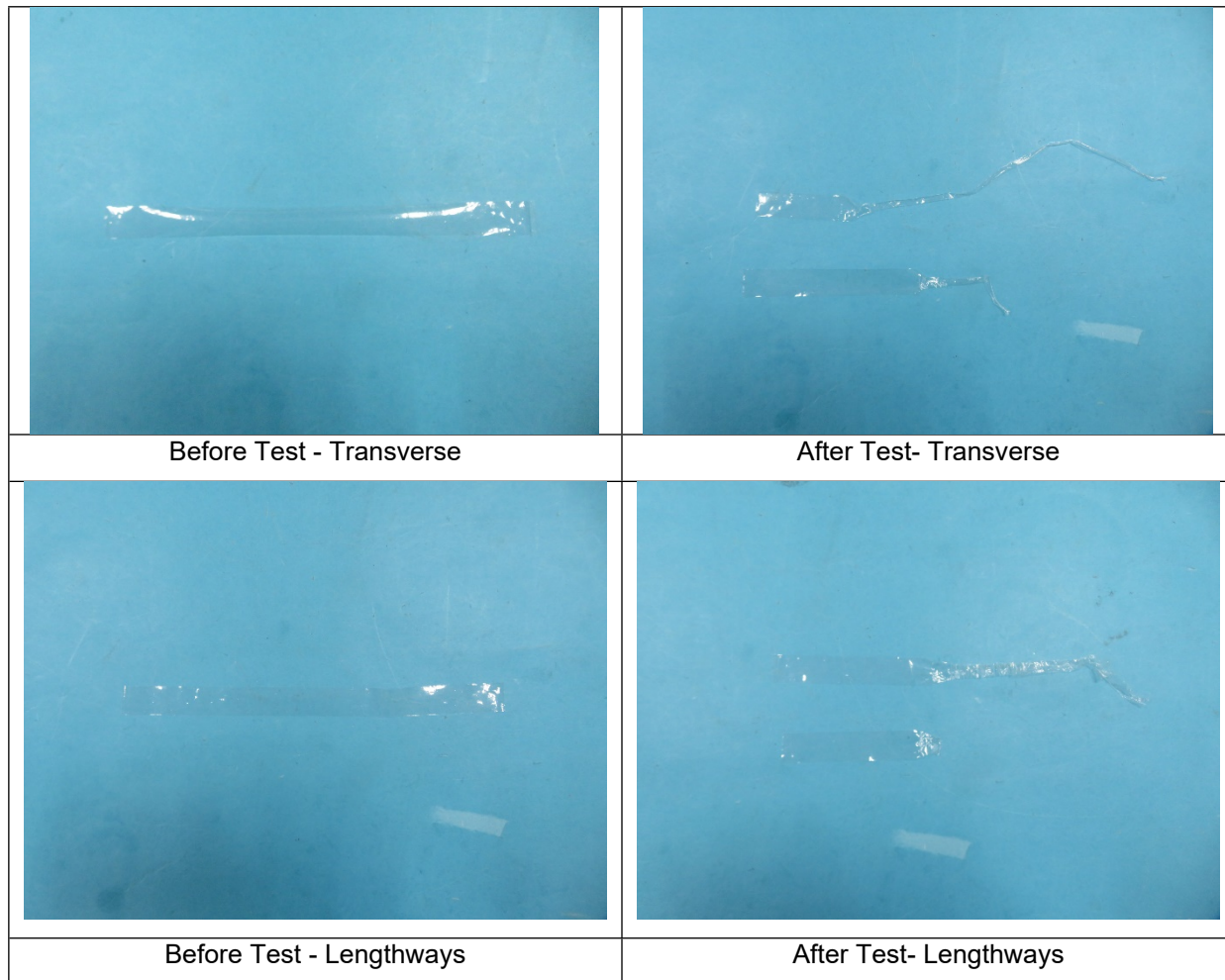
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Equipment Information:

Equipment	Model	Equipment No.	Calibration date	Next Calibration date
Universal Testing Machine	Z1.0	GZMR-PL-E168	2023-02-17	2024-02-16



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7. Test Item: Cling

Sample Description: Film

Test Method: BB/T 0024-2018 Section 6.4.2, Appendix A

Test Condition:

Test width: 25mm

Testing speed: 125mm/min

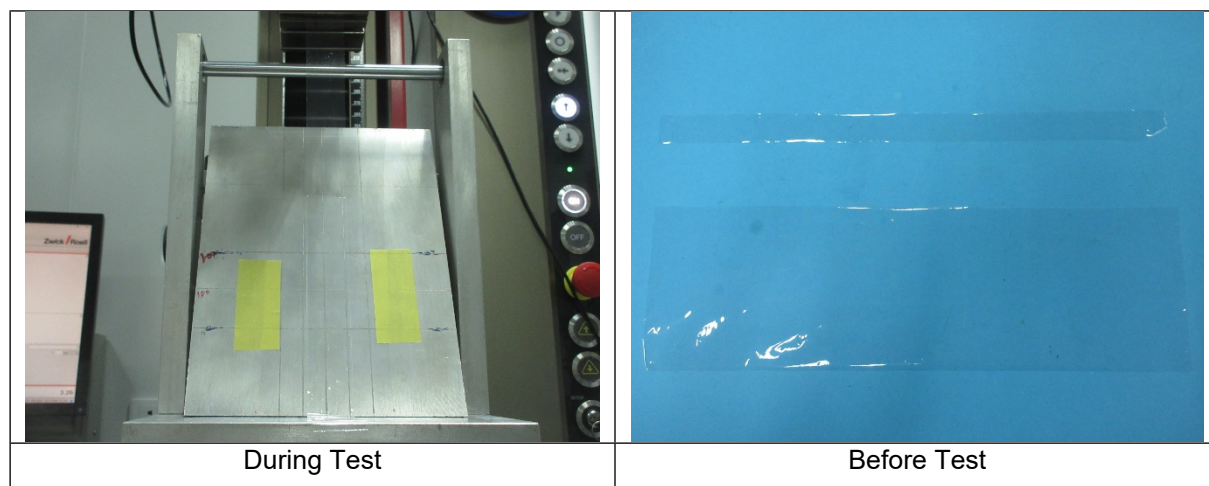
Lab Environmental Condition: (23 ± 2) °C, (50 ± 5) % RH

Test Result:

Test Item	Test Result	
Cling	No tensile	0.6N
	Tensile 50%	0.6N
	Tensile 10%	0.4N
	Tensile 200%	0.4N

Note: Test specimens were cut from the sample.

Test Photo:



During Test

Before Test



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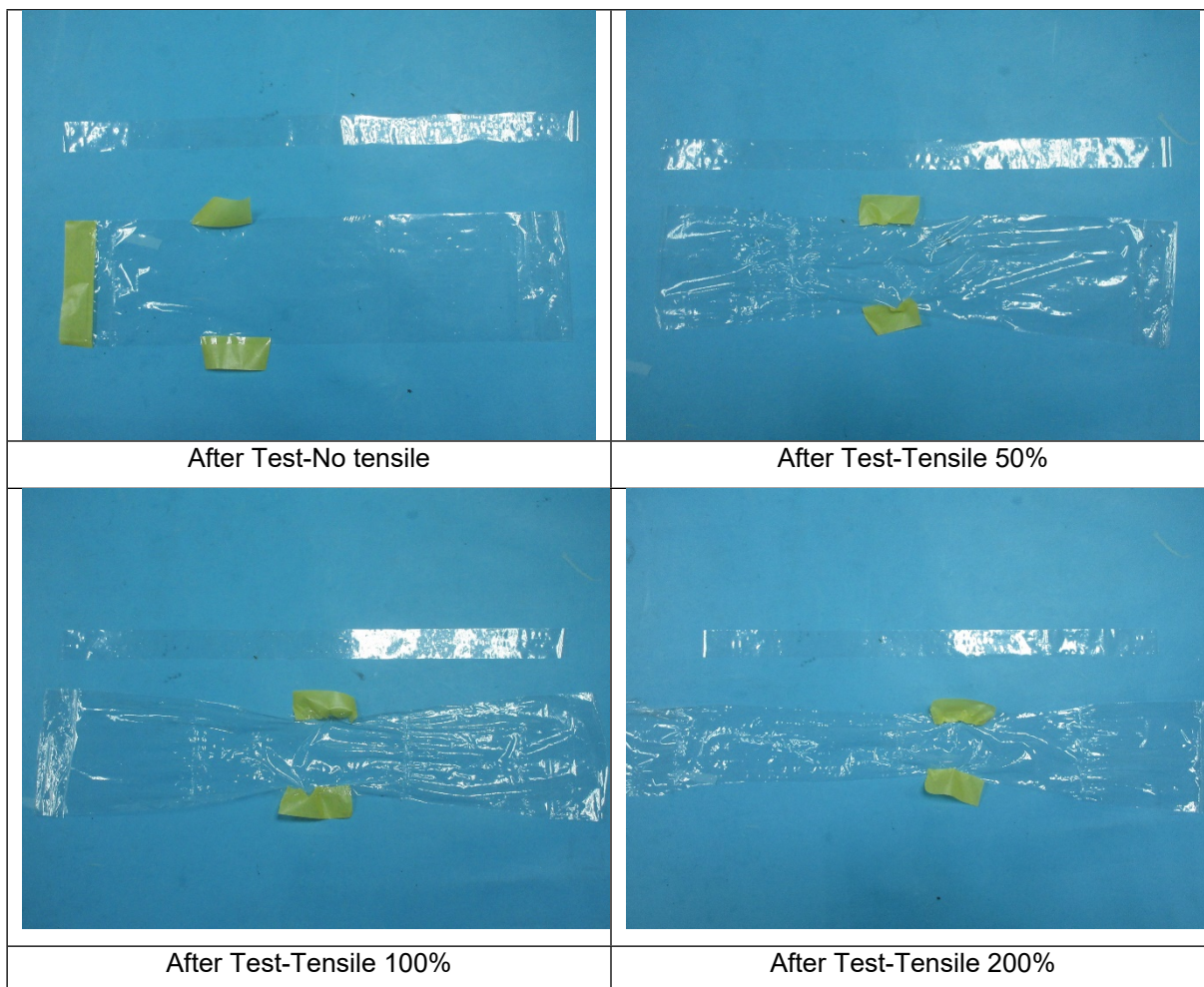
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TEST REPORT

No. : GZMR231002908802

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Equipment Information:

Equipment	Model	Equipment No.	Calibration date	Next Calibration date
Universal Testing Machine	Z1.0	GZMR-PL-E340	2023-05-17	2024-05-16



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8.Test Item: Elastic Recovery, Permanent Deformation, Tensile Retention and F Force Value

Sample Description: Film

Test Method: BB/T 0024-2018 Section 6.4.3, Annex B

Test Condition:

Condition: 100%elongation, Maintain 60s→Recovery to 125mm, maintain 180s→ 100%
elongation

Specimen width: 25mm

Specimen thickness: 0.018mm

Testing speed: 125mm/min

Initial distance between grips: 125mm

Test direction: Lengthways

Lab Environmental Condition: $(23 \pm 2)^{\circ}\text{C}$, $(50 \pm 5)\%\text{RH}$

Test Result:

Test Item	Test Result
Permanent Deformation	41%
Elastic Recovery	59%
Tensile Retention	77%
F Force Value	5.3N

Note: Test specimens were cut from the sample.



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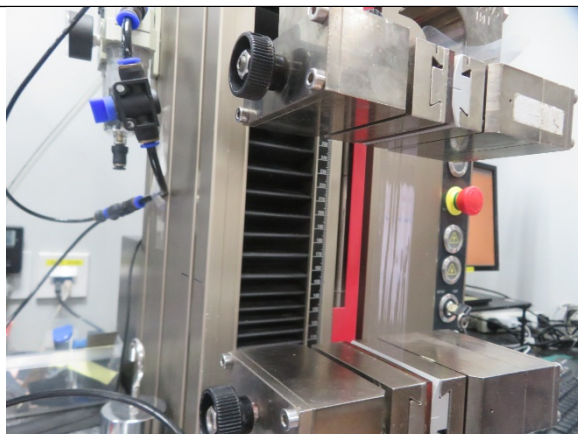
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Test Photo:



During Test



Before Test



After Test

Equipment Information:

Equipment	Model	Equipment No.	Calibration date	Next Calibration date
Universal Testing Machine	Z1.0	GZMR-PL-E168	2023-02-17	2024-02-16



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9. Test item: Puncture Resistance

Sample description: Film

Test method: BB/T 0024-2004 Section 6.4.4, Annex C

Test Condition:

Test speed: 250mm/min

Lab Environmental Condition: (23±2)°C, (50±5)%RH

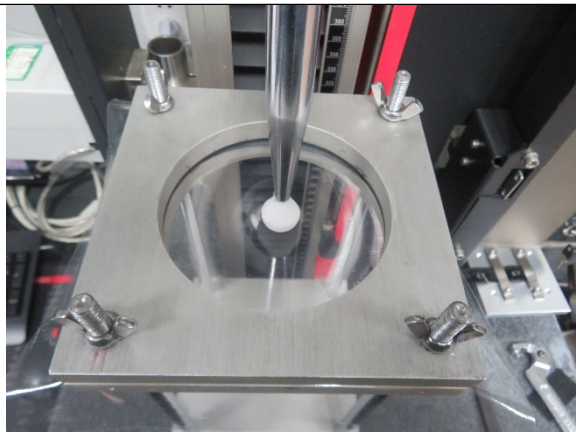
Test Result:

Test Item	Test Result
Breaking Force	16.3N
Elongation	53mm

Note:

1. The outside surface was faced to the test probe.
2. Test specimens were cut from the sample.

Test Photo:



During Test



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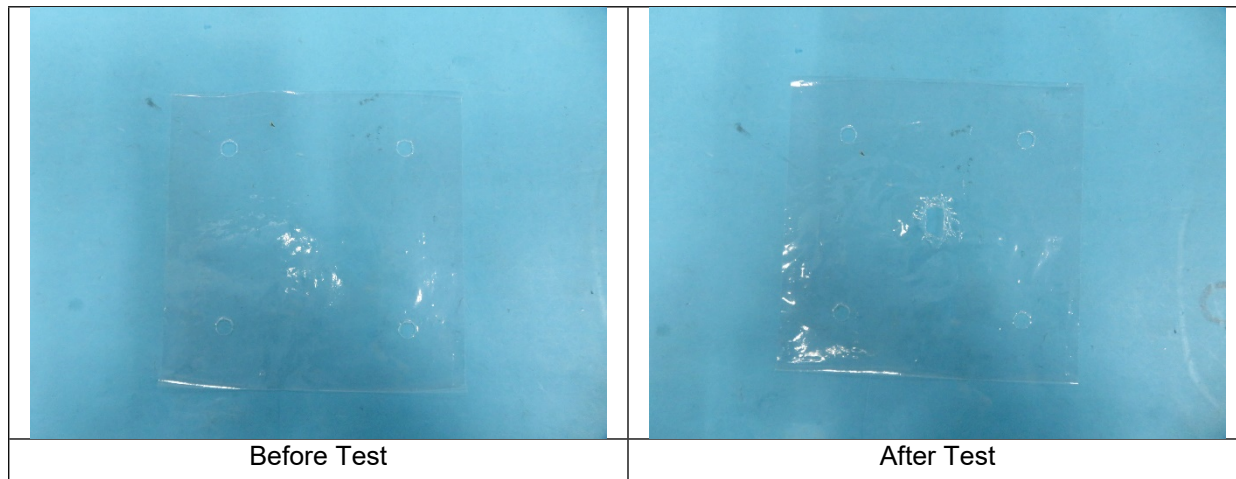
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Equipment Information:

Equipment	Model	Equipment No.	Calibration date	Next Calibration date
Universal testing machine	Z2.5	GZMR-PL-E370	2023-03-16	2024-03-15



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10. Test item: Deviation of Mass per Unit Area

Sample description: Film

Test method: BB/T 0024-2004 Section 6.4.5

Test Condition:

Specimen: 500mm×170mm

Lab Environmental Condition: (23±2)°C, (50±5)%RH

Test Result:

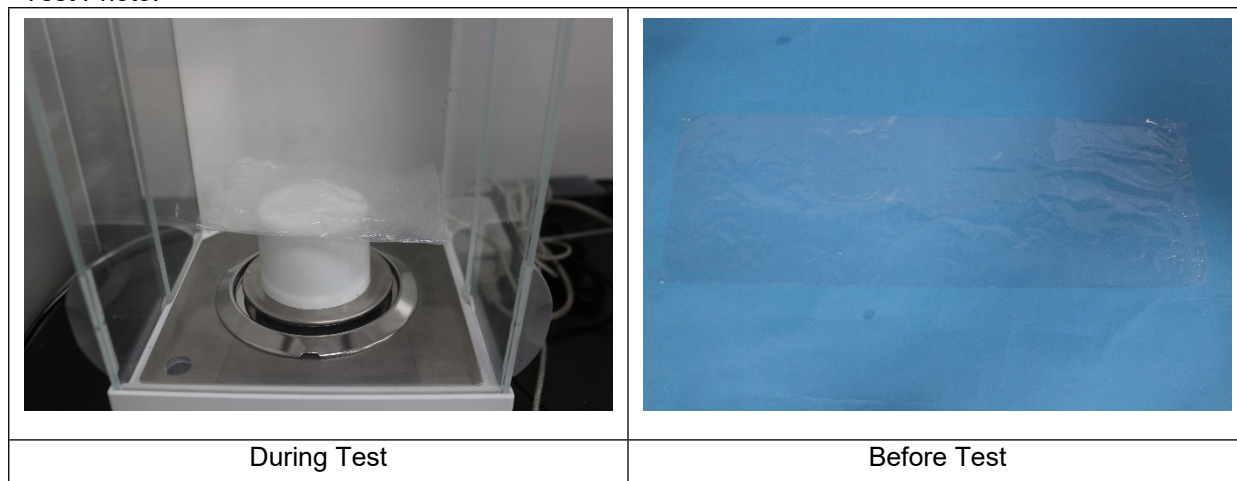
Test Item	Test Result
Mass per Unit Area	18.4g/m ²
Deviation of Mass per Unit Area	-1.6%~2.2%

Note:

1. Deviation, %=(maximum (minimum) - average)/average × 100

2. Test specimens were cut from the sample.

Test Photo:



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Equipment Information:

Equipment	Model	Equipment No.	Calibration date	Next Calibration date
Straight Steel Ruler	1m	GZMR-PL-E017-09	2022-10-27	2023-10-26
Electron Balance	XPE404S	GZMR-PL-E004-07	2023-08-11	2024-08-10

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2. The results of this test report were copied from the report No. GZMR231002908801.

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