

TEST REPORT

No : SHIN1501002631MR

Date : Mar 1, 2020

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CUSTOMER NAME: XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
ADDRESS: XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX, CHINA

The following sample(s) was/where submitted and identified on behalf of the client as:

Sample name : Polyethylene tape (Inner, black)
SGS Ref No. : SHIN1501002607PS
Product Specification : 6" x 200ft x 25mils
Product or Lot No. : 980-25
Manufacturer : XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
Date of Receipt : Jan 12, 2020
Testing Start Date : Jan 12, 2020
Testing End Date : Jan 18, 2020
Test result(s) : Approved

(For further details, please refer to the following page(s))

Signed for
SGS-CSTC Standards Technical
Services (Shanghai) Co., Ltd.

Zano Lai
Authorized signatory

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No.	Test Item	Test Method	Result		Conclusion
1	90° Peel Strength to Backing at 23°C	ASTM D1000-10 Section 46~53	35.4 N/10mm		/
2	Tensile Strength	ASTM D1000-10 Section 37~45	Transverse	53.2 N/10mm	/
			Longitudinal	58.5 N/10mm	/
	Yields Strength		Transverse	48.4 N/10mm	/
			Longitudinal	46.2 N/10mm	/
	Elongation at Break		Transverse	651 %	/
			Longitudinal	690 %	/
3	PE Backing Thickness	ASTM D1000-10 Section 21~27	13.5 mils		/
4	Total Thickness	ASTM D1000-10 Section 21~27	25.8 mils		/
5	Thickness of Adhesive	ASTM D1000-10 Section 21~27	12.3 mils		/
6	Water Absorption	ASTM D570-98(2010)	0.09 %		/
7	Water Vapor Transmission Rate	ASTM E96/E96M-12	0.16 g/(m ² x24h)		/
8	Dielectric Strength	ASTM D149-09(2013) Method A	See result		/

Note: Pass : Meet the requirements

Fail : Does not meet the requirements

/ : Not apply to the judgement

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1. Test Item: 90° Peel Strength to Backing at 23°C

Test Conditions:

Specimen Width: 47.36mm

Testing Speed: 300mm/min

Lab Environmental Condition: 23+-2°C, 50+-5%RH

2. Test Item: Tensile Test

Test Conditions:

Specimen Width: 25mm

Testing Speed: 300mm/min

Grip Separation: 100mm

Lab Environmental Condition: 23+-2°C, 50+-5%RH

3. Test Item: PE Backing Thickness

Test Conditions:

Pressure: 50kPa

Lab Environmental Condition: 23+-2°C, 50+-5%RH

4. Test Item: Total Thickness

Test Conditions:

Pressure: 50kPa

Lab Environmental Condition: 23+-2°C, 50+-5%RH

5. Test Item: Thickness of Adhesive

Test Conditions:

Pressure: 50kPa

Lab Environmental Condition: 23+-2°C, 50+-5%RH

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6. Test Item: Water Absorption

Test Conditions:

Specimen: 100mm x 100mm x 0.301mm

Drying Condition: 50+-3°C, 24h

Immersion Condition: 23+-1°C, 24h

Lab Environmental Condition: 23+-2°C, 50+-5%RH

7. Test Item: Water Vapor Transmission Rate

Test Conditions:

Specimen Thickness: 0.330mm

Transmission Area: 0.005160m²

Condition: 23+-2°C, 50+-5%RH

Lab Environmental Condition: 23+-2°C, 50+-5%RH

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8. Test Item: Dielectric Strength

Test Conditions:

Precondition: 23+-2°C, 50+-5%RH, 48h

Surround medium: 10# Transformer oil

Dissimilar electrode: Lower electrode diameter: 75mm, height: 15mm

Upper electrode diameter: 25mm, height: 25mm

Frequency of voltage application: 50Hz

Rate-of-rise: 2000V/s

Test Result

Specimen	Dielectric Breakdown Voltage (kV)	Specimen Thickness (mm)	Dielectric Strength (kV/mm)
1	28.87	0.67	43.09
2	28.93	0.67	43.18
3	29.51	0.68	43.40
4	29.03	0.67	43.33
5	28.72	0.66	43.52
Average	--	--	43.30

Equipment Information

Equipment	Model	Equipment No.	Calibration Date	Next Calibration Date
Withstand Voltage Tester Console	JTKZ-5KVA	P-207-1	2019-7-15	2020-7-14

*****End of report*****

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