

TEST REPORT

No : SHIN1412052304MR

Date : Feb 10, 2020

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CUSTOMER NAME: XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
ADDRESS: XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX, CHINA

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

Sample name : Polyethylene tape (Outer, white)
SGS Ref No. : SHIN1412052222PS
Product Specification : 6" x 200ft x 25mils
Product or Lot No. : 955-25
Manufacturer : XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
Date of Receipt : Dec 8, 2019
Testing Start Date : Dec 8, 2019
Testing End Date : Dec 8, 2019
Test result(s) : Approved

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

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

Cathy Wu
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 | 4.11 N/10mm | | / |
| 2 | Tensile Strength | ASTM D1000-10 Section 37~45 | Transverse | 71.4 N/10mm | / |
| | | | Longitudinal | 84.3 N/10mm | / |
| | Yields Strength | | Transverse | 55.5 N/10mm | / |
| | | | Longitudinal | 58.1 N/10mm | / |
| | Elongation at Break | | Transverse | 717 % | / |
| | | | Longitudinal | 698 % | / |
| 3 | PE Backing Thickness | ASTM D1000-10 Section 21~27 | 20.1 mils | | / |
| 4 | Total Thickness | ASTM D1000-10 Section 21~27 | 25.6 mils | | / |
| 5 | Thickness of Adhesive | ASTM D1000-10 Section 21~27 | 5.5 mils | | / |
| 6 | Water Absorption | ASTM D570-98(2010) | 0.07 % | | / |
| 7 | Water Vapor Transmission Rate | ASTM E96/E96M-12 | 0.06 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: 50mm

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 0.510mm

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: 0.507mm

Transmission Area: 0.005024m²

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 | 26.93 | 0.66 | 40.80 |
| 2 | 28.23 | 0.66 | 42.77 |
| 3 | 26.96 | 0.64 | 42.12 |
| 4 | 27.12 | 0.66 | 41.09 |
| 5 | 29.43 | 0.66 | 44.59 |
| Average | -- | -- | 42.27 |

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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