

INSPECTION REPORT

Report No.: SHMR220800543401

Date: 2022-08-29

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Client: Wuji Architectural Decoration Materials (Changzhou) Co., Ltd.

Address: No. 6, Building 2, No. 39 Yangang East Road, Jintan District, Changzhou

Sample: Resin Panel

Other information — Place of origin: Jintan District, Changzhou

Export country: Nationwide (domestic)

The above information and samples were provided and confirmed by the client. SGS is not responsible for verifying their accuracy, suitability and/or completeness.

SGS reference: SHHL2208035143SD

Sample received: 2022-08-18

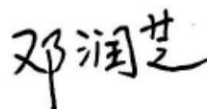
Testing start: 2022-08-18

Testing end: 2022-08-29

Test results: see next page (unless otherwise stated, results apply only to the tested sample)

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

Authorized signature



Deng Runzhi — Authorized signatory



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Summary of results:

No.	Test item	Test method	Result	Conclusion
1	Heat deflection temperature	GB/T 1634.1-2019 & GB/T 1634.2-2019, Method A	71.3 °C	/
2	Tensile modulus	ISO 527-1:2019 & ISO 527-2:2012	2130 MPa	/
3	Tensile strength	ISO 527-1:2019 & ISO 527-2:2012	59.2 MPa	/
	Elongation at break		9.3 %	
4	Flexural strength	GB/T 9341-2008	81.8 MPa	/
	Flexural modulus		2080 MPa	/
5	Light transmittance	GB/T 2410-2008, Method B	87.4%	/

Remarks: Pass = meets requirement

Fail = does not meet requirement

/ = no judgement



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Test item 1: Heat deflection temperature

Sample description: plastic part

Method: GB/T 1634.1-2019 & GB/T 1634.2-2019, Method A

Test conditions:

Specimen: 80 × 10.05 × 3.94 mm

Heat-transfer medium: silicone oil

T₁1.8

Heating rate: 120 °C/h

Span: 64 mm

Laboratory conditions: (23 ± 2) °C, (50 ± 5) % RH

Test results:

Test item	Test result
Heat deflection temperature	71.3 °C

Remarks: remove the protective film before testing.

Photo of original sample:



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Test item 2: Tensile modulus

Sample description: plastic part

Method: ISO 527-1:2019 & ISO 527-2:2012

Test conditions:

Specimen: Type 1B

Narrow-section width: 10.130 mm

Specimen thickness: 3.887 mm

Test speed: 1 mm/min

Gauge length: 50 mm

Initial grip separation: 115 mm

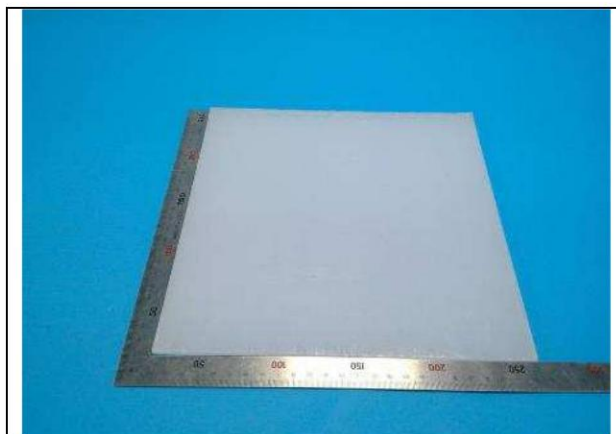
Laboratory conditions: (23 ± 2) °C, (50 ± 5) % RH

Test results:

Test item	Test result
Tensile modulus	2130 MPa

Remarks: test specimens were cut from the sample.

Photo of original sample:



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Test item 3: Tensile test

Sample description: plastic part

Method: ISO 527-1:2019 & ISO 527-2:2012

Test conditions:

Specimen: Type 1B

Narrow-section width: 10.130 mm

Specimen thickness: 3.887 mm

Test speed: 50 mm/min

Gauge length: 50 mm

Initial grip separation: 115 mm

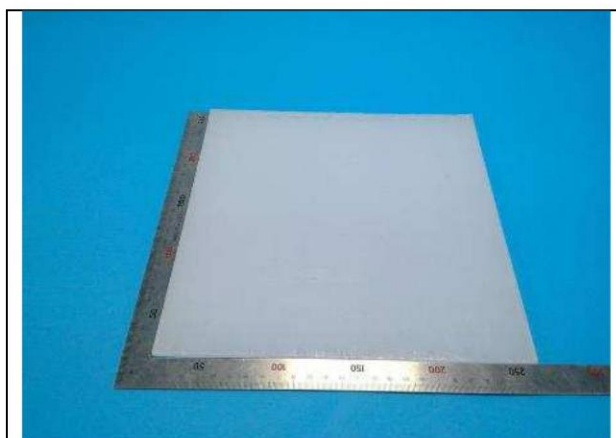
Laboratory conditions: (23 ± 2) °C, (50 ± 5) % RH

Test results:

Test item	Test result
Tensile strength	59.2 MPa
Elongation at break	9.3 %

Remarks: test specimens were cut from the sample.

Photo of original sample:



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Test item 4: Flexural test

Sample description: plastic part

Method: GB/T 9341-2008

Test conditions:

Specimen: 80 × 9.992 × 3.879 mm

Test speed: 2 mm/min

Span: 64 mm

Laboratory conditions: (23 ± 2) °C, (50 ± 5) % RH

Test results:

Test item	Test result
Flexural strength	81.8 MPa
Flexural modulus	2080 MPa

Remarks: flexural strength is the maximum strength recorded beyond 3.5% strain.

Photo of original sample:



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Test item 5: Light transmittance

Sample description: plastic part

Preconditioning: (23 ± 2) °C, (50 ± 10) % RH, 40 h

Method: GB/T 2410-2008, Method B

Test conditions:

Specimen thickness: 3.90 mm

Integrating-sphere spectrophotometer, d/8

Light source: C

Observer: 2°

Measuring aperture: 25 mm

Measurement mode: regular transmittance

Laboratory conditions: (23 ± 2) °C, (50 ± 5) % RH

Test results:

Test item	Result
Light transmittance	87.4%

Remarks: test specimens were cut from the sample.



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Test photos:

Original sample	Test specimen

Appendix:

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END OF REPORT *****



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