

Test Report

Report No. : SHA03-22114570-JC-01-02En

Sample Origin : Customer Sample Delivery
Zhejiang Aoci Decoration

Client : Materials Co., Ltd
No. 2618, Rd. Haifeng, Binhai
Industrial Zone, Taizhou,

Address: Zhejiang, China

Shanghai WEIPU Testing Technology Group Co., LTD.



Test Report

The following sample(s) was/were submitted and identified on behalf of the applicant:

Sample Name: POLYCARBONATE HOLLOW SHEET

Sample Description: /

Specification: /

Type/ Batch number: /

Other Information: /

Testing information:

Date of Sample Received: 2022-11-24

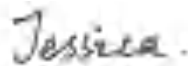
Testing Period: 2022-11-24~ 2022-12-05

Test Item(s): Selected test (s) as requested by client.

Test Criterion: Please refer to next page(s).

Test Result: Please refer to next page(s).

Complied by:



Approved by:



Issued Date:

2023-08-16



1. Test Item: Transmittance, haze

Test Method: GB/T 2410-2008

Detection equipment:

Mist meter, model: WGT-S

Digital vernier caliper, model: 0-150 mm

Test conditions:

Sample size: (100×100×5.53) mm

Test method: Method A haze meter method

Light source type: C-type

Test results:

Sample No	Sample description	Serial Number	transmittance (%)	Haze (%)
2211005601-1	/	1	79.3	38.65
		2	79.6	39.91
		3	79.5	39.42
		Average value	79.5	39.33
		Result representation	79.5	39.3

2. Test Item: High speed puncture performance*

Test Method: ISO 6603-2:2000

Detection equipment:

Instron 9250 HV Multi axis impact testing machine, calibration validity period: 2022.09.19-2023.09.18

Upperwork 0-150mm digital caliper, calibration validity period: 2021.11.08-2022.11.07

State adjustment: (23±2)°C&(50±5)%RH, 48h

Test environment: 23°C

Impact speed: 4.4m/s

Strike head diameter: 20mm (lubricated)

Inner diameter of fixture: 40mm

Drop weight: 16.23kg

Test height: 0.987m

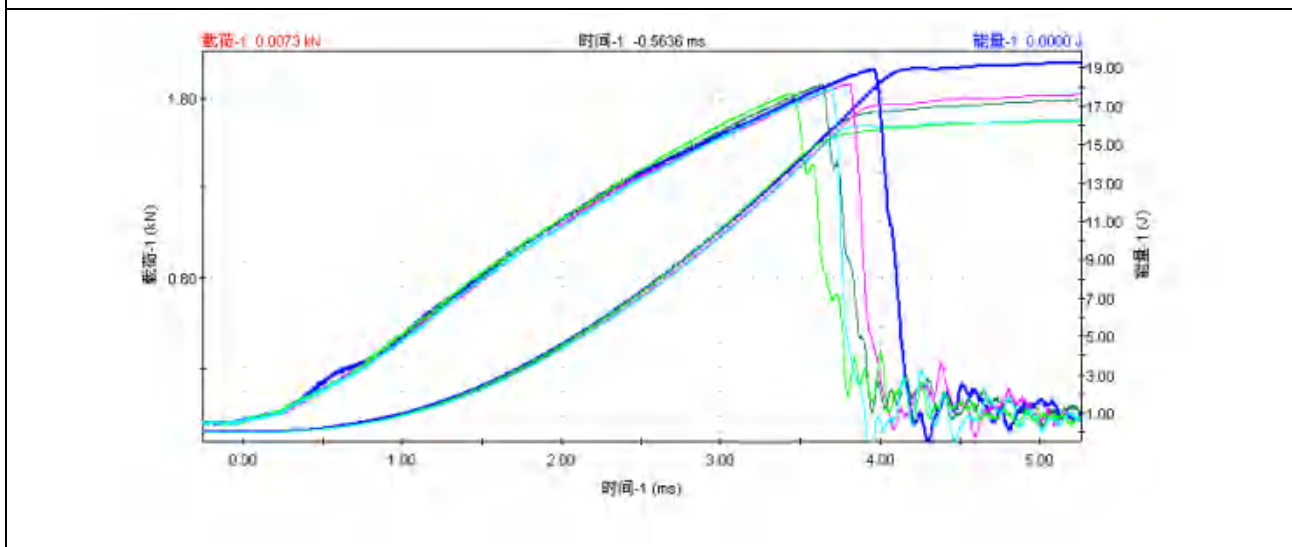
Test energy: 157.9J

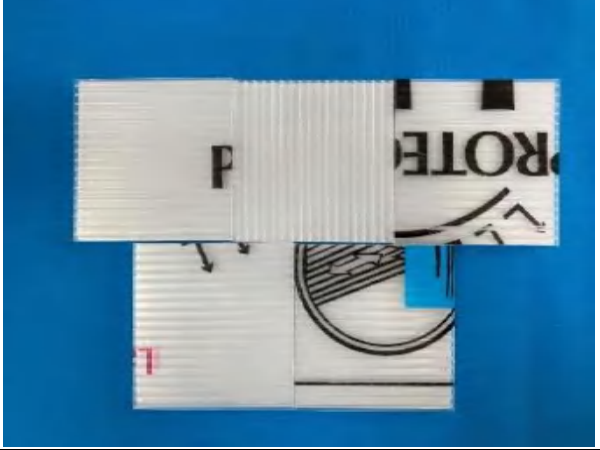

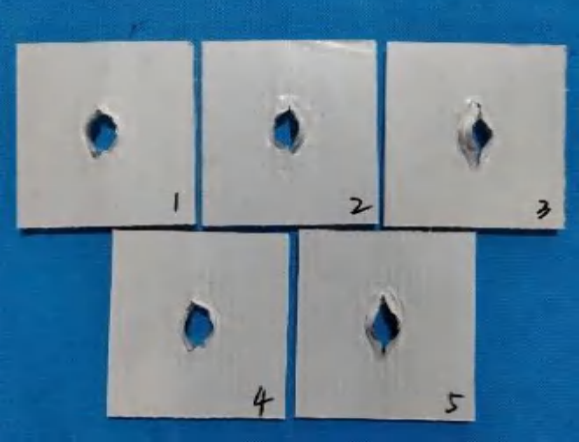
Detection deviation: None

Test results:

Sample No		thickn ess	maximum force	Deformatio n at maximum force	Energy at maximum force	Piercing energy	failure mode
Batch number/barcode	Serial Number	mm	kN	mm	J	J	/
2211005601-1	No.1	6.05	1.87	16.01	15.30	16.31	YD
	No.2	6.05	1.96	17.36	17.90	18.73	YD
	No.3	6.05	1.88	16.65	16.18	16.86	YS
	No.4	6.05	1.83	15.14	13.97	15.13	YD
	No.5	6.05	1.85	16.21	15.33	15.78	YS
	mean value	/	1.88	16.27	15.74	16.56	/
technical requirement (JG/T 116-2012)		/	≥600N	/	≥5	/	/
determine		/	Pass	/	Pass	/	/

detection curve



Sample before testing	Photos during testing
	
Sample after testing	
	
<p>Remarks: 1- Failure mode: YD (deep tensile cracking after yield), YS (stable crack propagation after yield), YU (unstable crack propagation after yield), NY (non yield);</p> <p>2- The test results are only responsible for the customer's sample and are not responsible for the authenticity of the sample. We do not assume responsibility for verifying the accuracy, appropriateness, and completeness of the information provided by the customer;</p> <p>The results presented in this report are for scientific research, teaching, internal quality control, product development, and other purposes only, and are not used as social justice data.</p>	

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3. Test Item: Thermal expansion coefficient *

Test Method: JG/T 116-2012

Detection equipment:

TMA Q400

Experimental environment: temperature (25 ± 5) °C; Humidity (30-70)% RH

Test results:

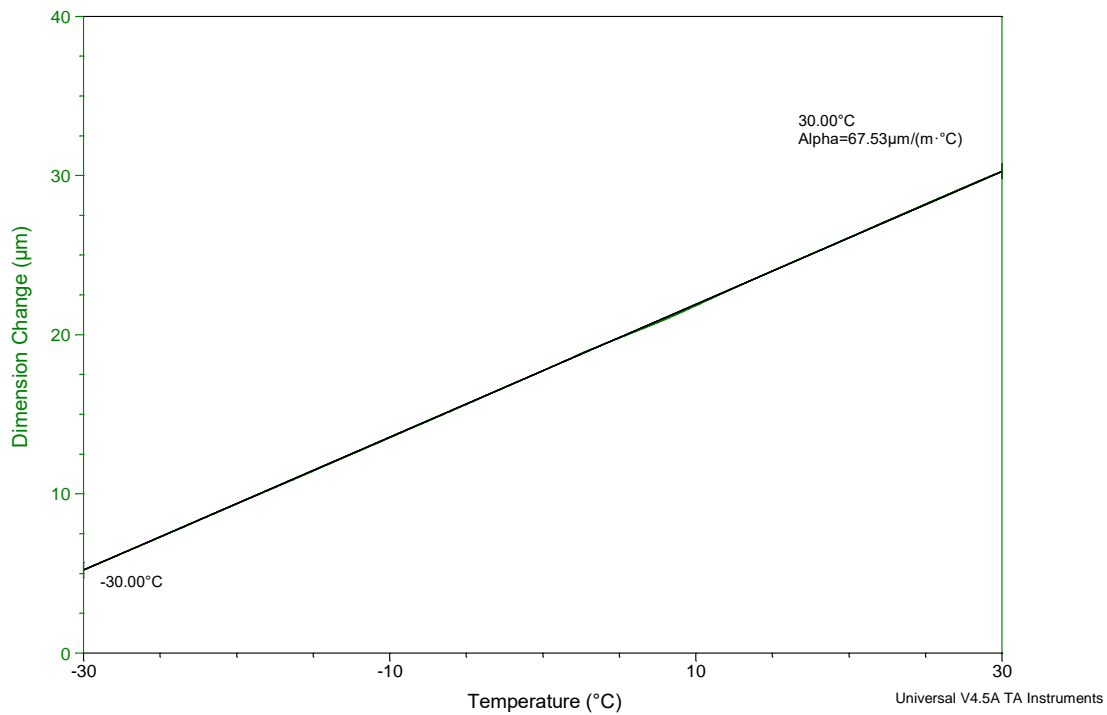
Sample No	Sample description	temperature range (°C)	Thermal expansion coefficient (μm/(m°C))
2211005601-1	/	-30...30	67.53

Test data and spectrogram:

Sample: TOUMINGSULIAO
 Size: 6.1800 mm

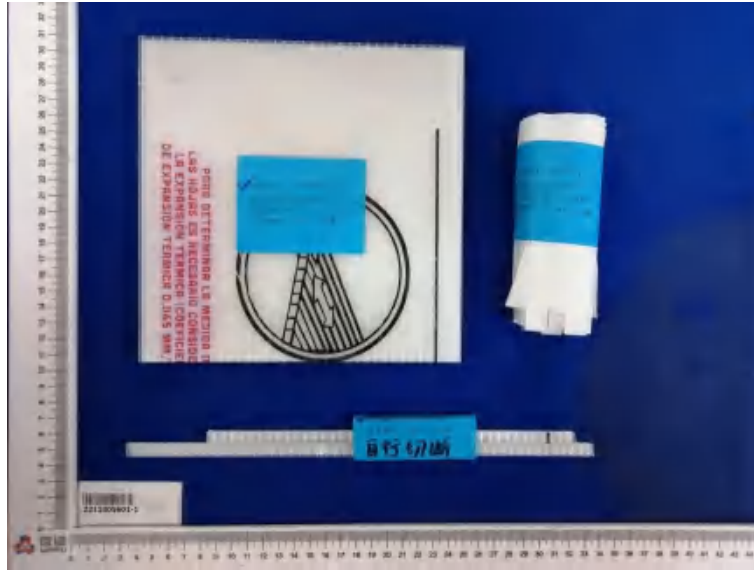
TMA

Instrument: TMA Q400 V22.5 Build 31



End of the Page

Sample picture(s):



2211005601-1

With the consent of the commissioning party, the items marked with * in this report will be carried out by an external laboratory, and the testing basis is not within the scope of its CNAS accreditation.

End of the Report

—DECLARE—

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