

## TEST REPORT

No. : XMIN2206006360PS

Date : Jul 07, 2022

Page: 1 of 13

scan to see the report



XMIN2206006360PS

CUSTOMER NAME: JINJIANG XINXING METAL INDUSTRY AND TRADE CO., LTD  
ADDRESS: YUXI INDUSTRIAL ZONE YONGHE TOWN, JINJIANG CITY, FUJIAN  
PROVINCE

Sample Name : ACRYLIC PLATE

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. : GZMR220601862901  
Date of Receipt : Jun 14, 2022  
Testing Start Date : Jun 14, 2022  
Testing End Date : Jul 07, 2022  
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 Xiamen Branch  
Testing Center

Jude Zhao  
Authorized signatory



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Xiamen Branch Testing Center-Materials Laboratory

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# TEST REPORT

No. : XMIN2206006360PS

Date : Jul 07, 2022

Page: 2 of 13

## Summary of Results:

No.	Test Item	Test Method	Result	
1	Charpy Unnotched Impact Strength	ISO 179-1:2010	13kJ/m <sup>2</sup> C (complete break)	
2	Deflection Temperature under Load	ASTM D648-18 Method B	77.5°C	
3	Rockwell Hardness	ASTM D785-08(2015) Procedure A	92.2L	
4	Tensile Test	With reference to ASTM D638-14 and client's requirement	Tensile Strength	47.5MPa
			Elongation at Break	2.5%
5	Thickness	ASTM D5947-18 Procedure B	4.45mm	
6	Total Luminous Transmittance	ASTM D1003-21 Procedure A	93.0%	
7	Vicat Softening Temperature	ASTM D1525- 17 <sub>ε1</sub>	86.6°C	



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# TEST REPORT

No. : XMIN2206006360PS

Date : Jul 07, 2022

Page: 3 of 13

1. Test Item: Charpy Unnotched Impact Strength

Sample Description: Plastic part

Test Method: ISO 179-1:2010

Test Condition:

Specimen: ISO 179-1/1eU

Specimen thickness: 3.82mm

The capacity of the pendulum: 4J

Impact speed: 2.9m/s

Span: 62mm

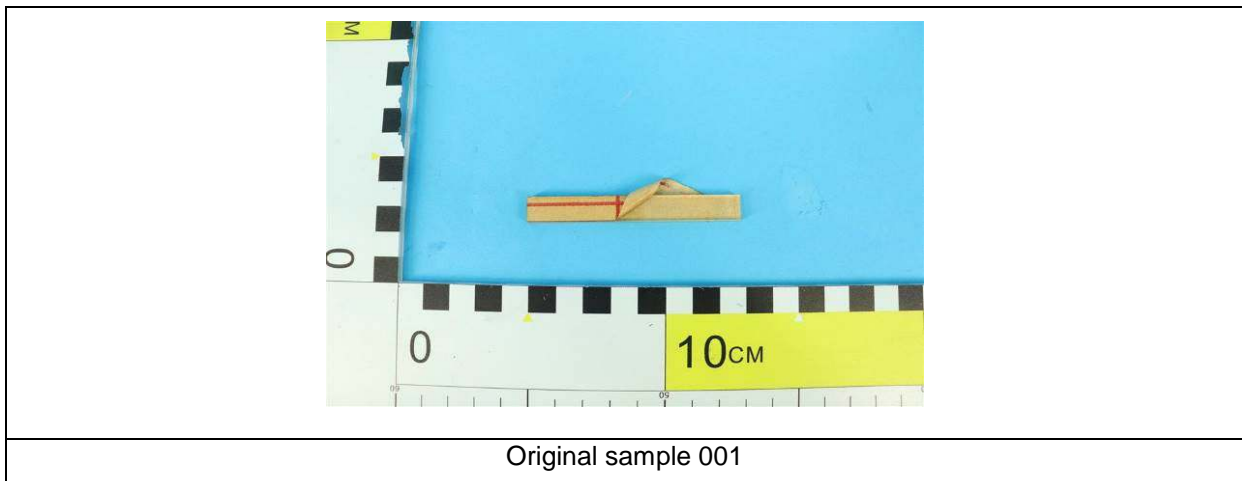
Lab Environmental Condition: 23±2°C, 50±5%RH

Test Result:

Test Item	Test Result
Charpy Unnotched Impact Strength	13kJ/m <sup>2</sup> C (complete break)

Note: The protected paper of test specimens was ripped off before test.

Test Photo:



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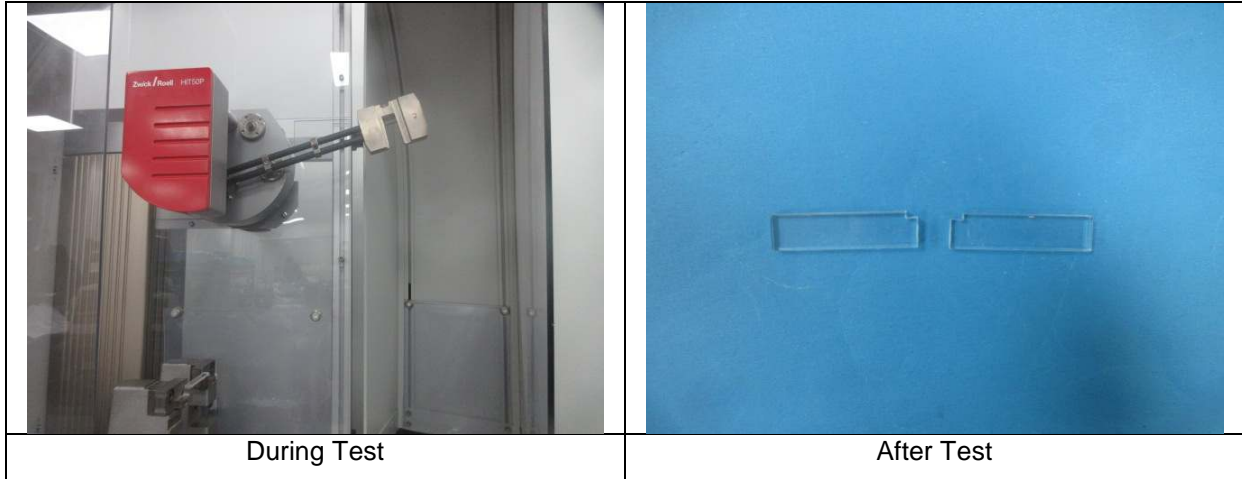
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# TEST REPORT

No. : XMIN2206006360PS

Date : Jul 07, 2022

Page: 4 of 13



Equipment Information:

Equipment	Model	Equipment No.	Calibration date	Next Calibration date
Impact Tester	HIT50P	GZMR-PL-E283	2021-08-23	2022-08-22



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# TEST REPORT

No. : XMIN2206006360PS

Date : Jul 07, 2022

Page: 5 of 13

2.Test Item: Deflection Temperature under Load

Sample Description: Plastic part

Test Method: ASTM D648-18 Method B

Test Condition:

Specimen: 127mm x3.79mm x 12.69mm

Heat-transfer media: Silicone oil

Rate of temperature: 120°C/h

Load: 1.82MPa

Span: 100mm

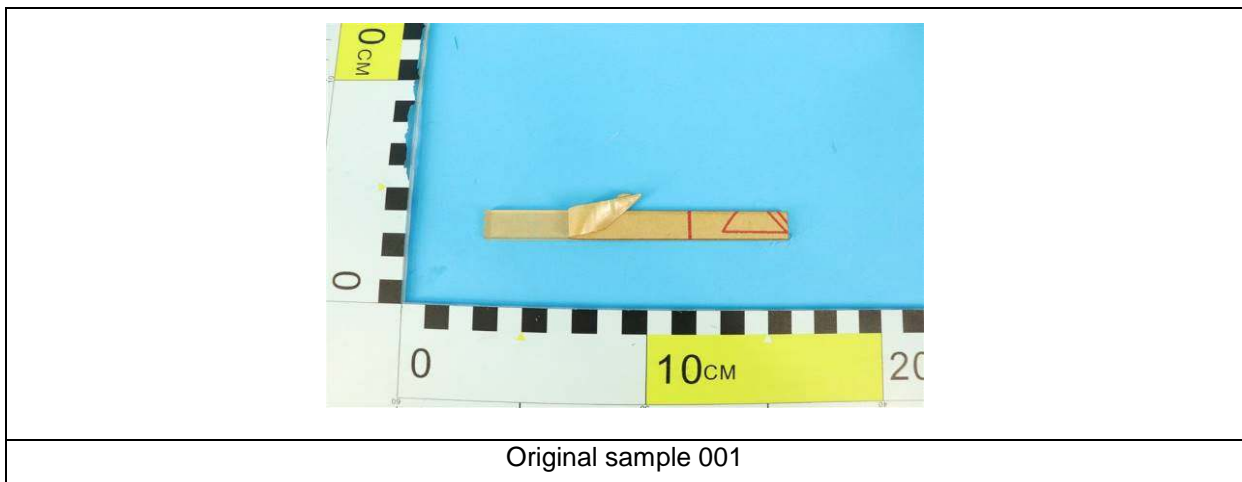
Lab Environmental Condition: (23±2)°C, (50±5)%RH

Test Result:

Test Item	Test Result
Deflection Temperature under Load	77.5°C

Note: The protected paper of test specimens was ripped off before test.

Test Photo:



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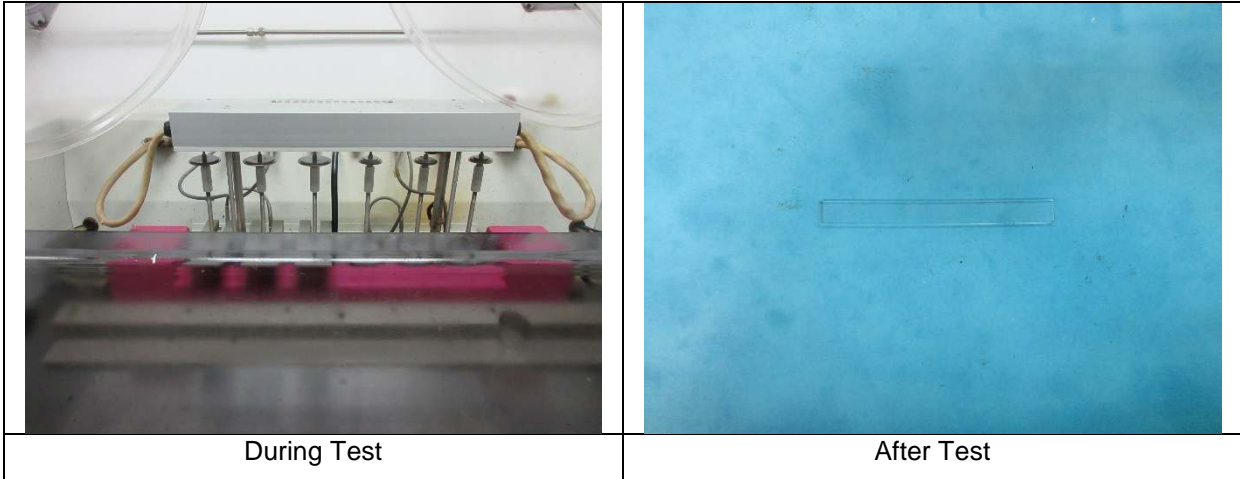
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# TEST REPORT

No. : XMIN2206006360PS

Date : Jul 07, 2022

Page: 6 of 13



Equipment Information:

Equipment	Model	Equipment No.	Calibration date	Next Calibration date
HDT and VICAT Tester	6970.000	GZMR-PL-E091	2022-01-11	2023-01-10



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# TEST REPORT

No. : XMIN2206006360PS

Date : Jul 07, 2022

Page: 7 of 13

3.Test Item: Rockwell Hardness

Sample Description: Plastic part

Test Method: ASTM D785-08(2015) Procedure A

Test Condition:

Specimen thickness:7.57 mm

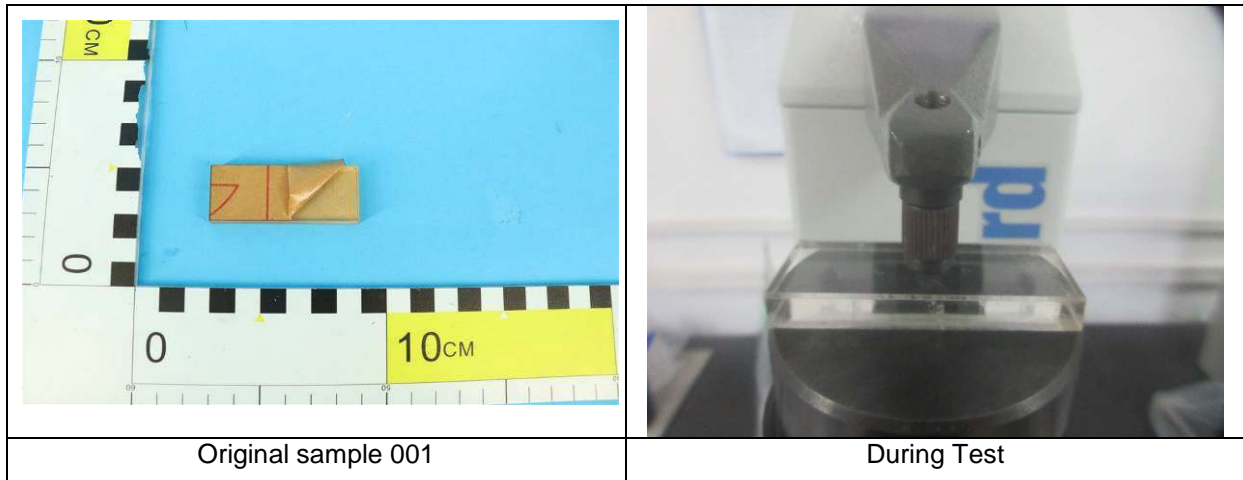
Lab Environmental Condition: (23±2)°C, (50±5)%RH

Test Result:

Test Item	Test Result
Rockwell Hardness	92.2L

Note: The protected paper of test specimens was ripped off before test.

Test Photo:



Equipment Information:

Equipment	Model	Equipment No.	Calibration date	Next Calibration date
Rockwell Hardness Testing Machine	HR-521	GZMR-MT-E080	2021-09-15	2022-09-14



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# TEST REPORT

No. : XMIN2206006360PS

Date : Jul 07, 2022

Page: 8 of 13

4. Test Item: Tensile Test

Sample Description: Plastic part

Test Method: With reference to ASTM D638-14 and client's requirement

Test Condition:

- Specimen: Dumbbell type
- Specimen thickness: 3.99mm
- Specimen width at narrow portion: 13.24mm
- Testing speed: 5mm/min
- Gauge length: 50mm
- Distance between grips: 115mm

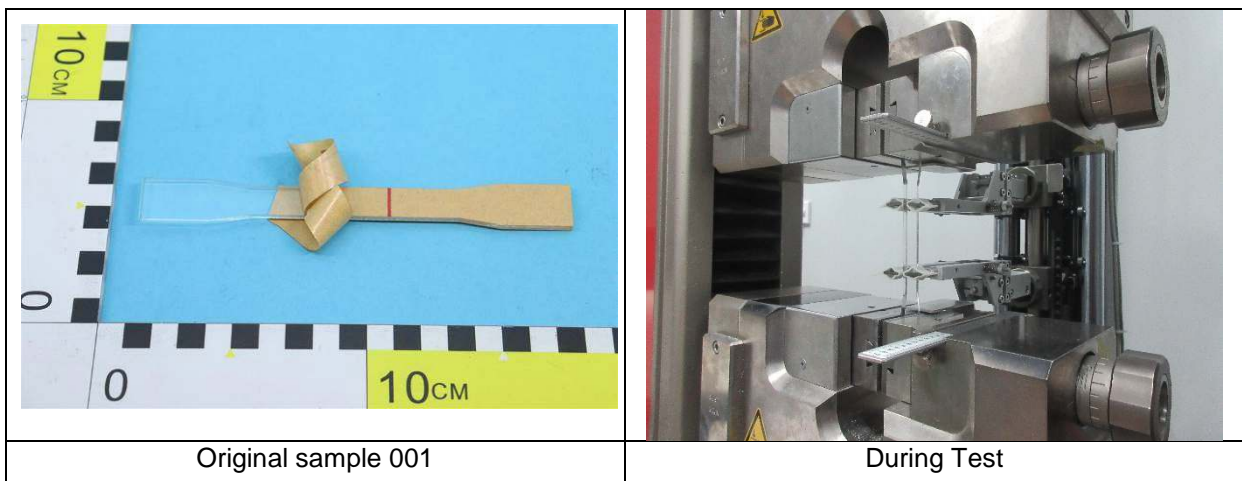
Lab Environmental Condition: 23±2°C, 50±5%RH

Test Result:

Test Item	Test Result
Tensile Strength	47.5MPa
Elongation at Break	2.5%

Note: The release paper of test specimens was ripped off before test.

Test Photo:



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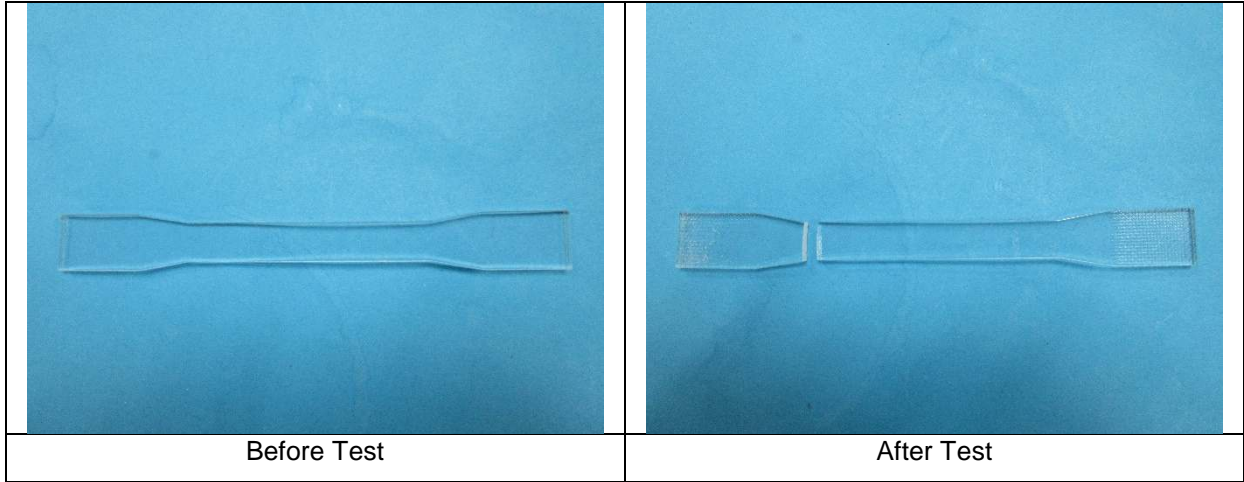


# TEST REPORT

No. : XMIN2206006360PS

Date : Jul 07, 2022

Page: 9 of 13



Equipment Information:

Equipment	Model	Equipment No.	Calibration date	Next Calibration date
Universal Testing Machine	Z030	GZMR-PL-E140	2022-06-21	2023-06-20



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# TEST REPORT

No. : XMIN2206006360PS

Date : Jul 07, 2022

Page: 10 of 13

5. Test Item: Thickness

Sample Description: Plastic part

Test Method: ASTM D5947-18 Procedure B

Test Condition:

Load: 0.8N

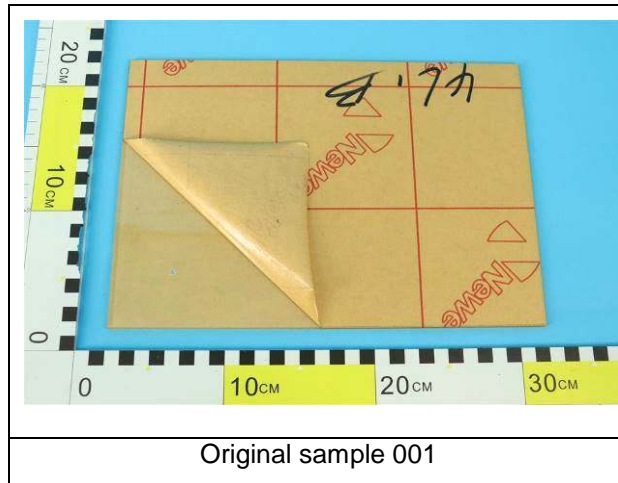
Lab Environmental Condition: (23 ± 2) °C, (50 ± 5) %RH

Test Result:

Test Item	Test Result
Thickness	4.45mm

Note: The protected paper of test specimens was ripped off before test.

Test Photo:



Equipment Information:

Equipment	Model	Equipment No.	Calibration date	Next Calibration date
Digital Micrometer	0~25mm/0.001m m	GZMR-PL-E048-04	2022-04-06	2023-04-05



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# TEST REPORT

No. : XMIN2206006360PS

Date : Jul 07, 2022

Page: 11 of 13

6.Test Item: Total Luminous Transmittance

Sample Description: Plastic part

Test Method: ASTM D1003-21 Procedure A

Test Condition:

Specimen thickness: 3.88mm

Light source: C

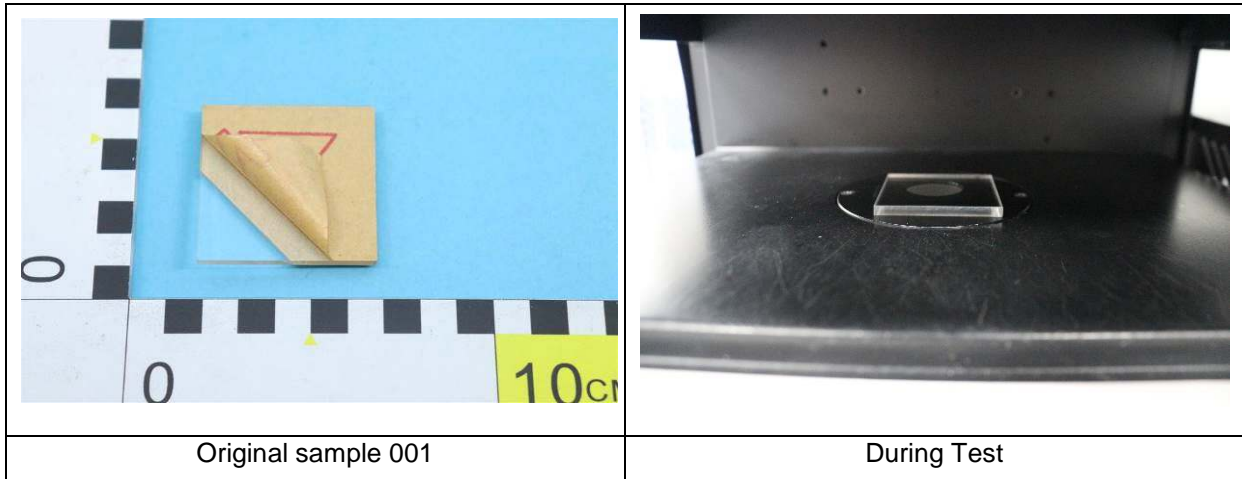
Lab Environmental Condition: 23±2°C, 50±5%RH

Test Result:

Test Item	Test Result
Total Luminous Transmittance	93.0%

Note: The protected paper of test specimens was ripped off before test.

Test Photo:



Equipment Information:

Equipment	Model	Equipment No.	Calibration date	Next Calibration date
Hazemeter	NDH5000	GZMR-PL-E083	2021-09-07	2022-09-06



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# TEST REPORT

No. : XMIN2206006360PS

Date : Jul 07, 2022

Page: 12 of 13

7.Test Item: Vicat Softening Temperature

Sample Description: Plastic part

Test Method: ASTM D1525- 17<sup>e1</sup>

Test Condition:

Specimen thickness: 3.88mm

Heat-transfer media: Silicone oil

Rate of temperature: 50°C/h

Load: 50N

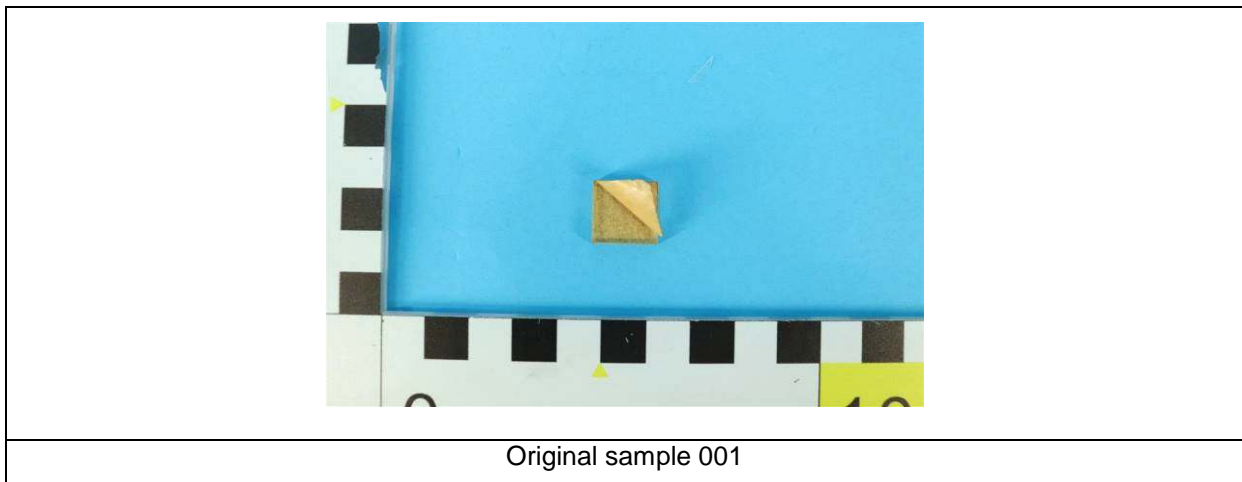
Lab Environmental Condition: (23±2)°C, (50±5)%RH

Test Result:

Test Item	Test Result
Vicat Softening Temperature	86.6°C

Note: The protected paper of test specimens was ripped off before test.

Test Photo:



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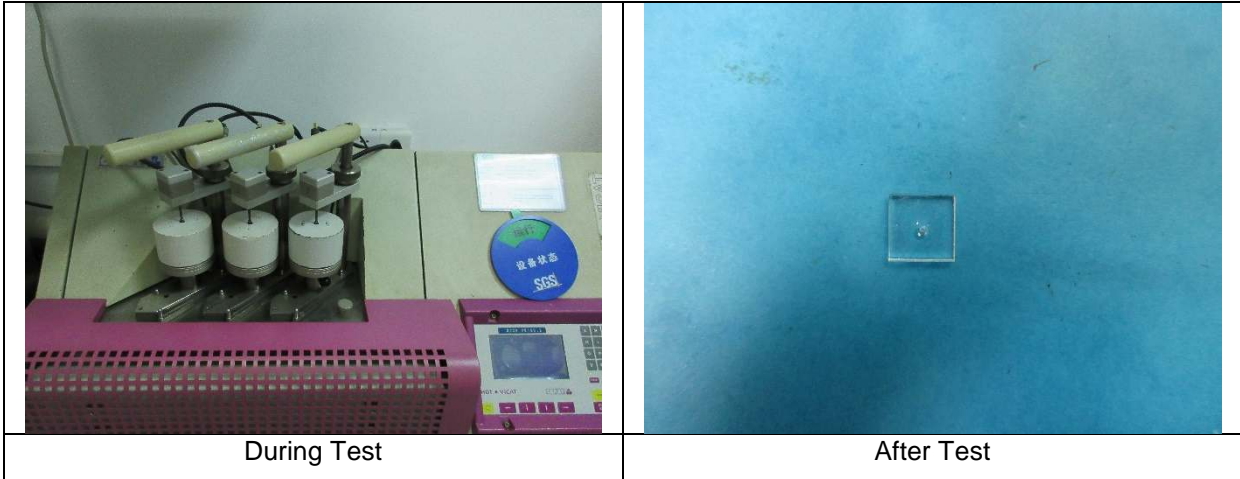
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# TEST REPORT

No. : XMIN2206006360PS

Date : Jul 07, 2022

Page: 13 of 13



Equipment Information:

Equipment	Model	Equipment No.	Calibration date	Next Calibration date
HDT and VICAT Tester	P/N 6911.000	GZMR-PL-E009	2022-05-24	2023-05-23

Note: The above test project/method was carried out by subcontractors.

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



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