

## TEST REPORT

No. : GZMR240802243501

Date : Aug 08, 2024

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CUSTOMER NAME: SHENZHEN XINTAO ACRYLIC CO., LTD  
ADDRESS: 11/F, BUILDING G1, XINGHE WORLD BUILDING, NO.1 YABAO  
ROAD, LONGGANG DISTRICT, SHENZHEN

Sample Name : Cast Acrylic sheet

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. : SZP24-034292

Date of Receipt : Aug 02, 2024

Testing Start Date : Aug 02, 2024

Testing End Date : Aug 08, 2024

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. Guangzhou Branch

Cathy Peng  
Authorized signatory



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SGS-CSTC Standards Technical Services Co., Ltd.  
Guangzhou Branch Measurement Laboratory

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## Summary of Results:

| No. | Test Item                                    | Test Method                         | Result                  |         | Conclusion |
|-----|----------------------------------------------|-------------------------------------|-------------------------|---------|------------|
|     |                                              |                                     | Tensile Strength        | 71.0MPa |            |
| 1   | Tensile Test                                 | GB/T 1040.2-2022                    | Tensile Strain at Break | 4.1%    | Pass       |
| 2   | Tensile Modulus                              | GB/T 1040.2-2022                    | 3090MPa                 |         | Pass       |
| 3   | Total Luminous Transmittance                 | GB/T 2410-2008 Method A             | 91.0%                   |         | Pass       |
| 4   | Vicat Softening Temperature                  | GB/T 1633-2000 Method B50           | 111℃                    |         | Pass       |
| 5   | Dimensional change after heating (shrinkage) | GB/T 7134 Section 6.6.3, Appendix A | 1.90%                   |         | Pass       |
| 6   | Appearance                                   | GB/T 7134-2008 Section 6.2          | See result              |         | Pass       |

Note: Pass : Meet the requirements;  
Fail : Does not meet the requirements;  
/ : Not Apply to the judgment.



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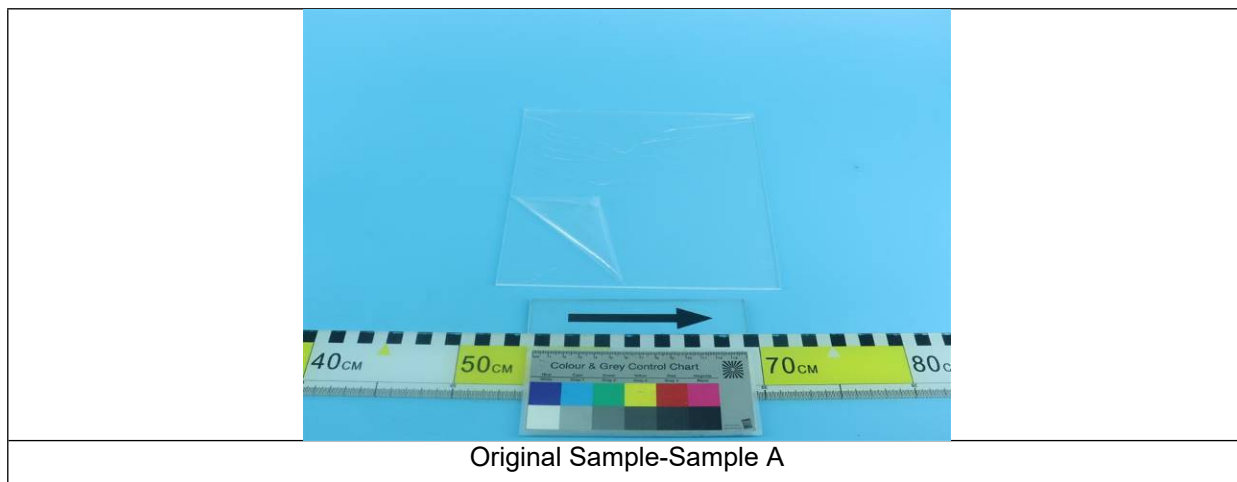
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Original Sample Photo:



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1. Test Item: Tensile Test

Sample Description: Sheet

Test Method: GB/T 1040.2-2022

Test Condition:

Specimen: Type 1B

Specimen thickness: 3.29mm

Testing speed: 5mm/min

Gauge length: 50mm

Initial distance between grips: 115mm

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

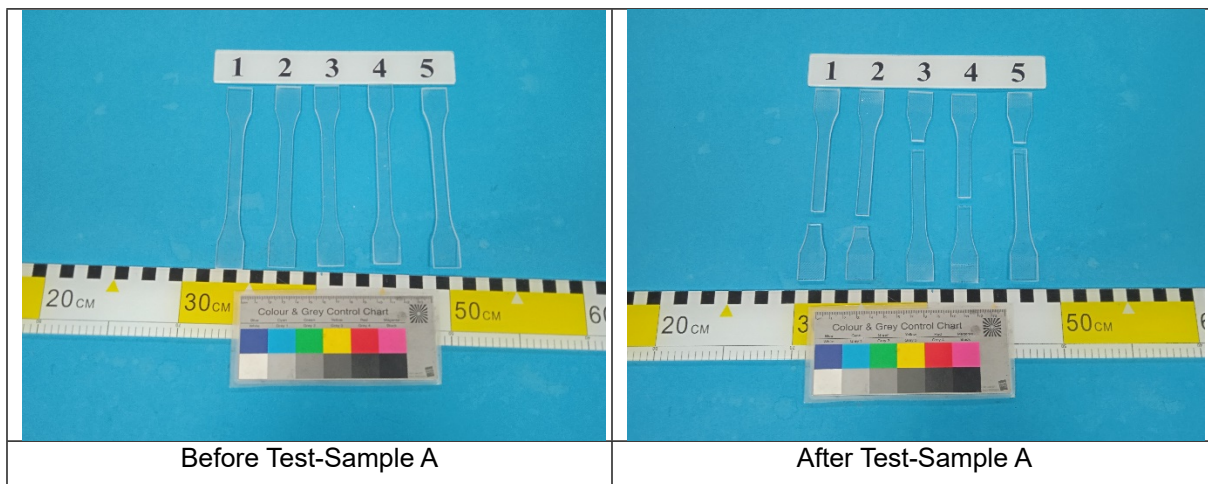
Test Result:

| Test Item               | Test Result | Client's requirement | Conclusion |
|-------------------------|-------------|----------------------|------------|
| Tensile Strength        | 71.0MPa     | ≥70MPa               | Pass       |
| Tensile Strain at Break | 4.1%        | ≥3%                  | Pass       |

Note:

1. Test specimens were cut from the sample.
2. The protected film of test specimens was ripped off before test.

Test Photo:



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## Equipment Information:

| Equipment                                  | Model | Equipment No. | Calibration date | Next Calibration date |
|--------------------------------------------|-------|---------------|------------------|-----------------------|
| Automation<br>Universal<br>Testing Machine | Z020  | GZMR-PL-E399  | 2024-04-16       | 2025-04-15            |

## 2. Test Item: Tensile Modulus

Sample Description: Sheet

Test Method: GB/T 1040.2-2022

## Test Condition:

Specimen: Type 1B

Specimen thickness: 3.29mm

Testing speed: 1mm/min

Gauge length: 50mm

Initial distance between grips: 115mm

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



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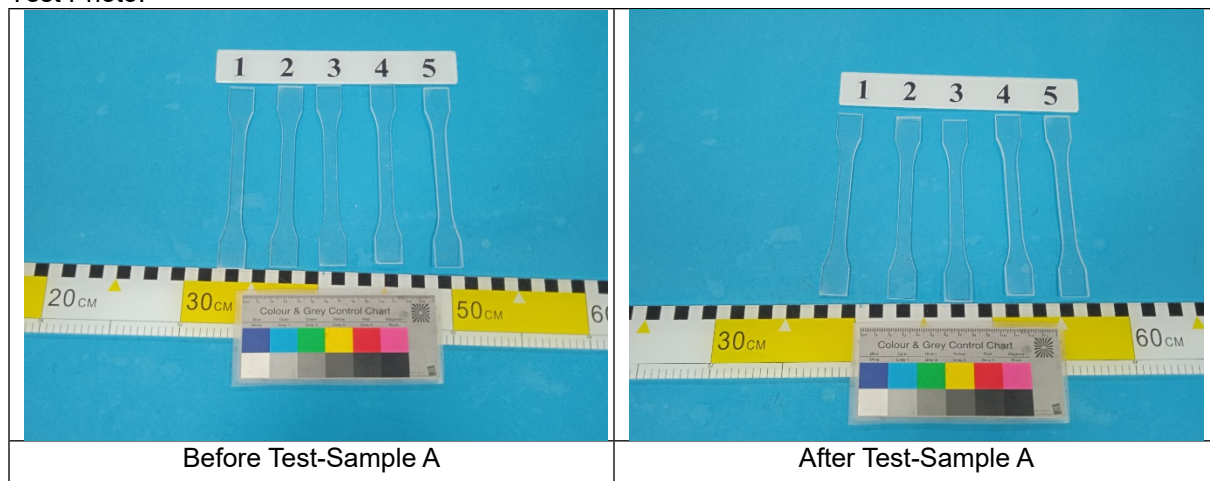
### Test Result:

| Test Item       | Test Result | Client's requirement  | Conclusion |
|-----------------|-------------|-----------------------|------------|
| Tensile Modulus | 3090MPa     | $\geq 3000\text{MPa}$ | Pass       |

### Note:

1. Test specimens were cut from the sample.
2. The protected film of test specimens was ripped off before test.

### Test Photo:



### Equipment Information:

| Equipment                                  | Model | Equipment No. | Calibration date | Next Calibration date |
|--------------------------------------------|-------|---------------|------------------|-----------------------|
| Automation<br>Universal<br>Testing Machine | Z020  | GZMR-PL-E399  | 2024-04-16       | 2025-04-15            |



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3. Test Item: Total Luminous Transmittance

Sample Description: Sheet

Test Method: GB/T 2410-2008 Method A

Test Condition:

Specimen thickness: 3.06mm

Light source: C

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

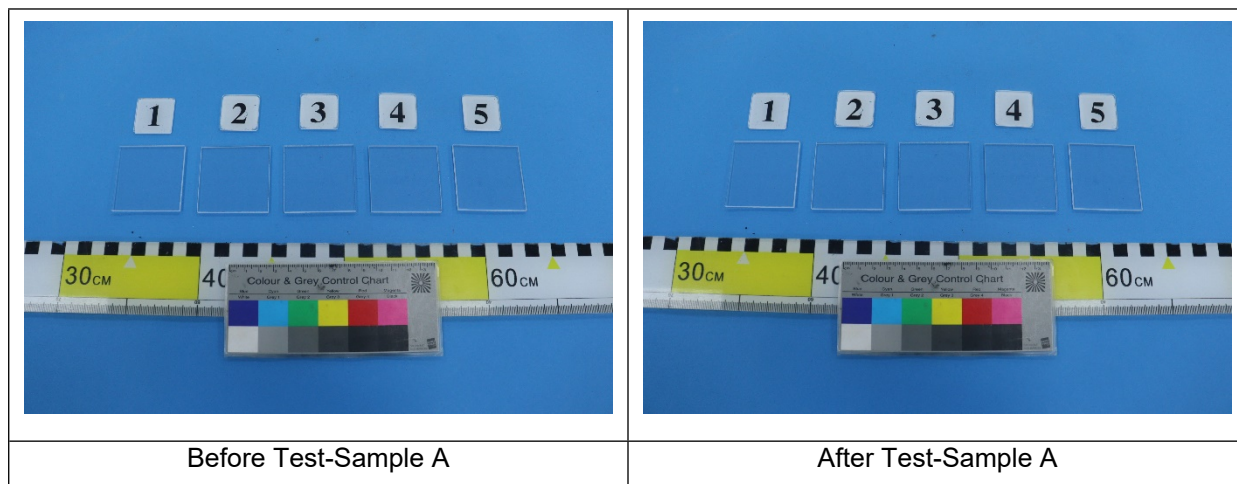
Test Result:

| Test Item                    | Test Result | Client's Requirement | Conclusion |
|------------------------------|-------------|----------------------|------------|
| Total Luminous Transmittance | 91.0%       | ≥91%                 | Pass       |

Note:

1. Test specimens were cut from the sample.
2. The protected film of test specimens was ripped off before test.

Test Photo:



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## Equipment Information:

| Equipment | Model   | Equipment No. | Calibration date | Next Calibration date |
|-----------|---------|---------------|------------------|-----------------------|
| Hazemeter | NDH5000 | GZMR-PL-E083  | 2024-06-21       | 2025-06-20            |

## 4. Test Item: Vicat Softening Temperature

Sample Description: Sheet

Test Method: GB/T 1633-2000 Method B50

Test Condition:

Specimen thickness: 3.09mm

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 | Client's Requirement | Conclusion |
|-----------------------------|-------------|----------------------|------------|
| Vicat Softening Temperature | 111°C       | ≥100°C               | Pass       |

Note:

1. Test specimens were cut from the sample.
2. The protected film of test specimens was ripped off before test.



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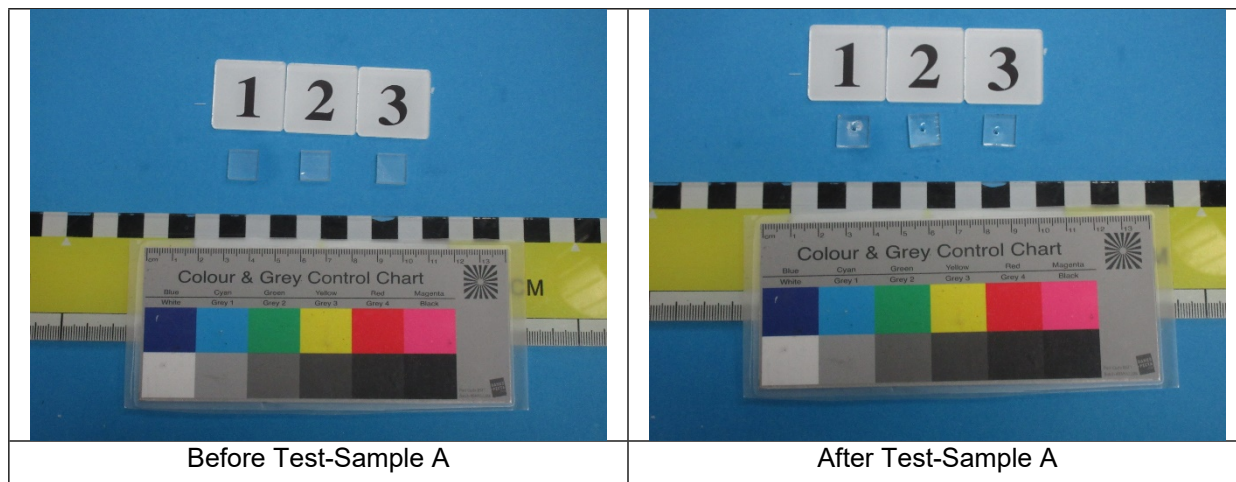
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Test Photo:



Equipment Information:

| Equipment            | Model        | Equipment No. | Calibration date | Next Calibration date |
|----------------------|--------------|---------------|------------------|-----------------------|
| HDT and VICAT Tester | P/N 6911.000 | GZMR-PL-E009  | 2024-03-28       | 2025-03-27            |



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5. Test Item: Dimensional change after heating (shrinkage)

Sample Description: Sheet

Test Method: GB/T 7134 Section 6.6.3, Appendix A

Test Condition:

Specimen: 100mm×100mm×3.0mm

Precondition : 70℃,48h→Cool down to  $23 \pm 2$  °C in a desiccatorTest condition: 160℃,60min→Cool down to  $23 \pm 2$  °C in a desiccator

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

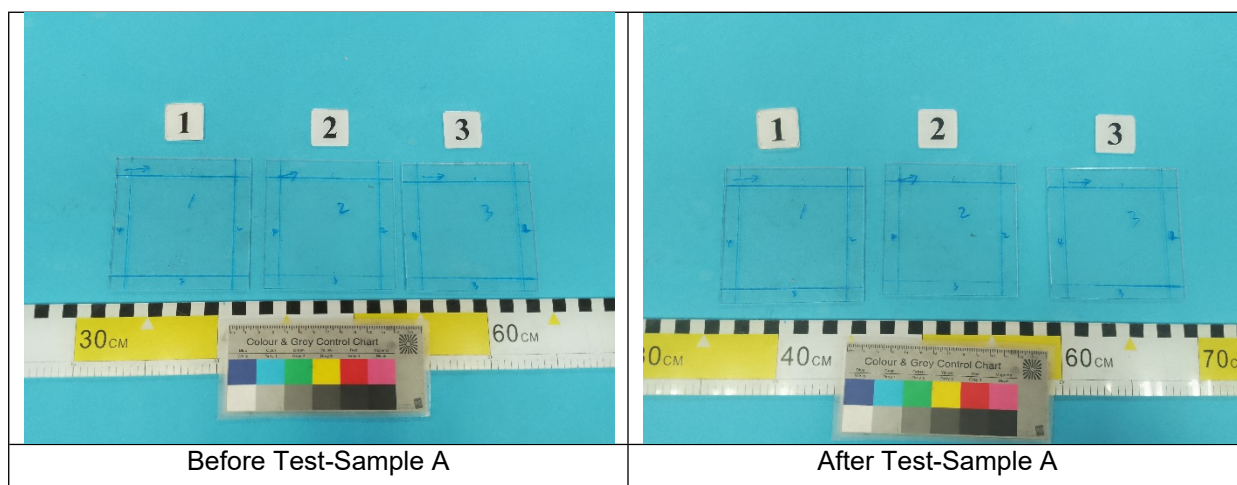
Test Result:

| Test Item                                          | Test Result | Client's Requirement | Conclusion |
|----------------------------------------------------|-------------|----------------------|------------|
| Dimensional change<br>after heating<br>(shrinkage) | 1.90%       | $\leq 2.5\%$         | Pass       |

Note:

1. Dimensional change after heating (shrinkage),  $\% = (\text{Dimension before heating} - \text{Dimension after heating}) / \text{Dimension before heating} \times 100$
2. Test specimens were cut from the sample.
3. The protected film of test specimens was ripped off before test.

Test Photo:



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## Equipment Information:

| Equipment               | Model   | Equipment No.   | Calibration date | Next Calibration date |
|-------------------------|---------|-----------------|------------------|-----------------------|
| Oven                    | UF750   | GZMR-AG-E181    | 2024-07-11       | 2025-07-10            |
| Digital Vernier Caliper | CD-20AX | GZMR-PL-E041-17 | 2024-01-04       | 2025-01-03            |
| Oven                    | UF110   | GZMR-PL-E295    | 2023-11-22       | 2024-11-21            |

## 6. Test Item: Appearance

Sample Description: Sheet

Test Method: GB/T 7134-2008 Section 6.2

Test Condition:

Visual inspection under natural light

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

## Test Result:

| Test Item  | Test Result     |                                                                                                | Client's Requirement                                                                           | Conclusion |
|------------|-----------------|------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|------------|
| Appearance | Surface Defect  | Smooth surface, no scratches greater than 3mm <sup>2</sup> , no spots or other surface defects | Smooth surface, no scratches greater than 3mm <sup>2</sup> , no spots or other surface defects | Pass       |
|            | Internal Defect | No bubbles, impurities, cracks or other defects                                                | No bubbles, impurities, cracks or other defects                                                | Pass       |

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



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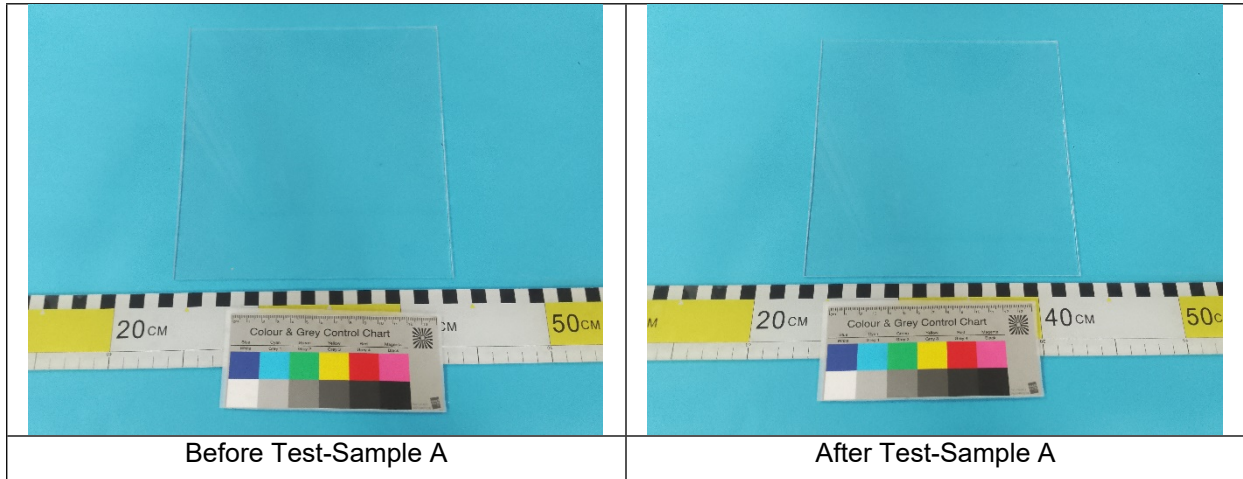
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Test Photo:



Appendix information:

\*Unless otherwise stated, the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule ( $w=0$ ) stated in ILAC-G8:09/2019.

\*In the territory of the People's Republic of China, the test report without CMA logo expresses the test report shall only be used for client scientific research, teaching, internal quality control, product research and development, etc., and just for client internal reference.

\*The current test report is the English version of report number GZMR240802243501\_CN. In case of any discrepancy between Chinese version and English version, the Chinese version shall prevail.

\*The test item 5、6 is not in the accredited testing scope of CNAS.

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



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