

## TEST REPORT

No. : SHMR260601518701

Date : Jun 25, 2026

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CUSTOMER NAME: POMDEPOT LIMITED  
ADDRESS: 17/ F, YAM TZE COMMERCIAL BUILDING, 23 THOMSON ROAD WAN  
CHAI, HONG KONG, HONG KONG

Sample Name : Polycarbonate solid 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. : SHIN2606005812PL01

Date of Receipt : Jun 15, 2026

Testing Start Date : Jun 15, 2026

Testing End Date : Jun 25, 2026

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 (Shanghai) Co., Ltd.

Menghan Sun  
Authorized signatory



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### Summary of Results:

| No. | Test Item                         | Test Method                        | Result                | Conclusion |
|-----|-----------------------------------|------------------------------------|-----------------------|------------|
| 1   | Charpy Notched Impact Strength    | ASTM D6110-18                      | 158 J/m               | /          |
| 2   | Deflection Temperature under Load | ASTM D648-18                       | 141.4 °C              | /          |
| 3   | Flexural Test                     | ASTM D790-25                       | See result            | /          |
| 4   | Horizontal Burning; HB            | UL 94-2023 Rev.2-2024<br>Section 7 | Classification<br>:HB | /          |
| 5   | Tensile Test                      | ASTM D638-22                       | See result            | /          |
| 6   | Total Luminous Transmittance/Haze | ASTM D1003-21<br>Procedure A       | See result            | /          |
| 7   | Linear Thermal Expansion          | ASTM E831-25                       | See result            | /          |

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



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## 1. Test Item: Charpy Notched Impact Strength

Sample Description: A-Plastic panel

Test Method: ASTM D6110-18

Pretreatment Condition: (23 ± 2) °C, (50 ± 5) %RH, 48 h

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

Test Condition:

Impact Engrey: 5.4 J

Span: 101.6 mm

Test Result:

Sample A

Impact Speed:3.5m/s

Specimen Width:6.37mm

| Test Item   | Charpy Notched Impact Strength, J/m | Failure Type |
|-------------|-------------------------------------|--------------|
| Test Result | 158                                 | C            |

Notes:

1. Test specimens were cut from the sample.
2. Notch preparation: machining



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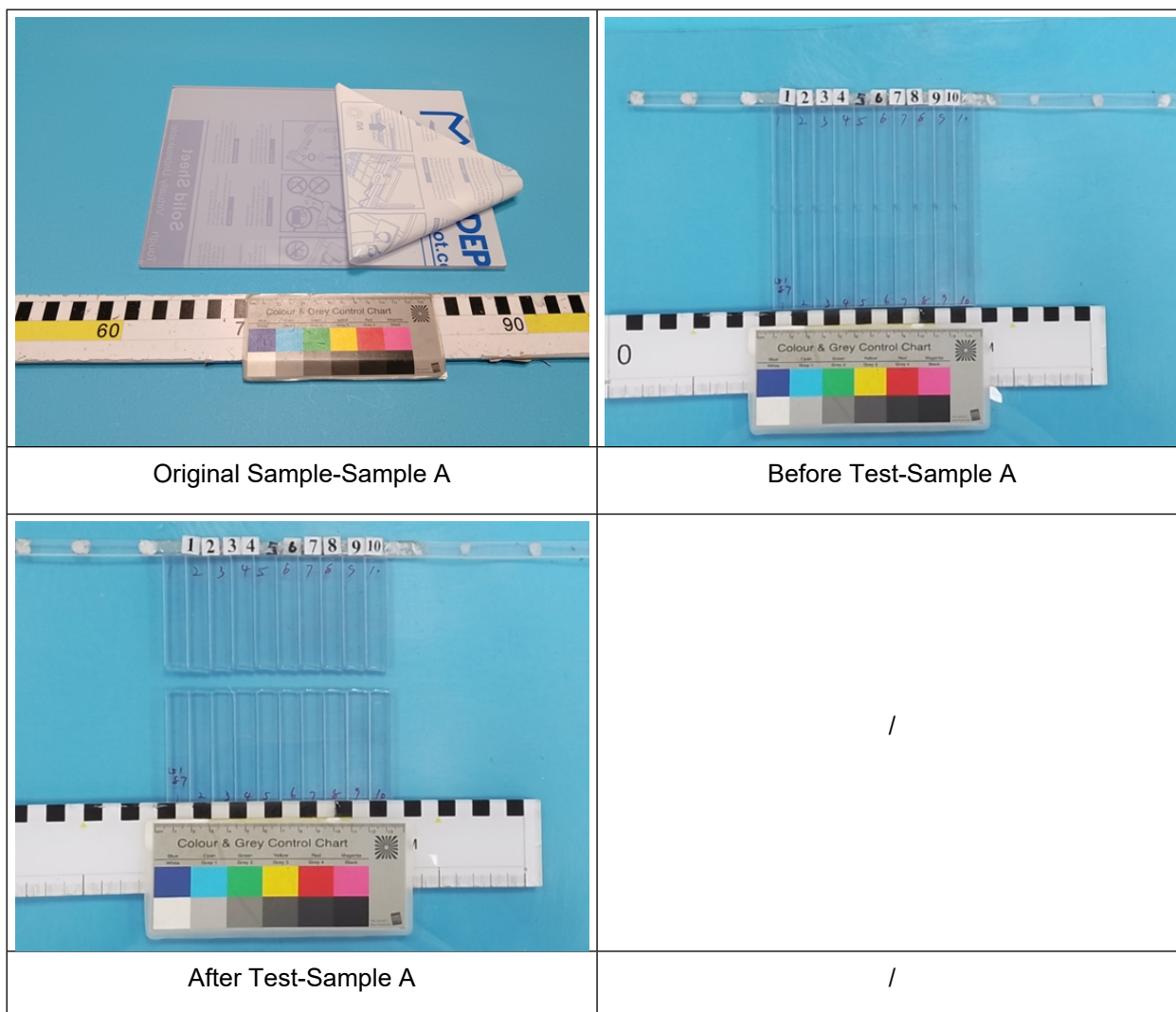
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Test Photo:



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### Equipment Information:

| Equipment Name         | Model  | Equipment No. | Calibration date | Next Calibration date |
|------------------------|--------|---------------|------------------|-----------------------|
| Pendulum Impact Tester | HIT25P | P-873         | 2025-11-04       | 2026-11-03            |



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### 2. Test Item: Deflection Temperature under Load

Sample Description: A-Plastic panel

Test Method: ASTM D648-18

Pretreatment Condition: (23 ± 2) °C, (50 ± 5) %RH, 24 h

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

Test Condition:

Specimen: 127 mm x 6.35 mm x 12.63 mm

Heat-transfer media: Silicone oil

Rate of temperature: 120 °C/h

Span: 100 mm

Test Result:

Sample A

Test Method:B

Force Applied:1.82 MPa

| Test Item   | Deflection Temperature under Load, °C |
|-------------|---------------------------------------|
| Test Result | 141.4                                 |

Notes:

Test specimens were cut from the sample.



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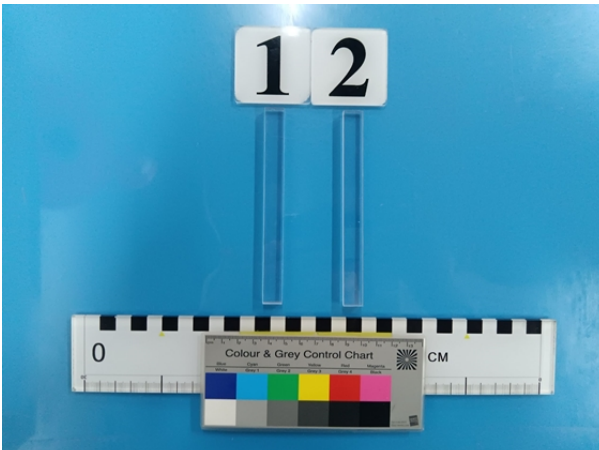
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Test Photo:

|                                                                                     |                                                                                     |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|   |  |
| <p>Original Sample-Sample A</p>                                                     | <p>Before Test-Sample A</p>                                                         |
|  | <p>/</p>                                                                            |
| <p>After Test-Sample A</p>                                                          | <p>/</p>                                                                            |



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### Equipment Information:

| Equipment Name     | Model     | Equipment No. | Calibration date | Next Calibration date |
|--------------------|-----------|---------------|------------------|-----------------------|
| Vicat / HDT tester | Compact 6 | P-414         | 2025-11-21       | 2026-11-20            |



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## 3. Test Item: Flexural Test

Sample Description: A-Plastic panel

Test Method: ASTM D790-25

Pretreatment Condition: (23 ± 2) °C, (50 ± 5) %RH, 24 h

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

Test Condition:

Specimen: 127 mm x 12.719 mm x 6.355 mm

Span: 100 mm

Test Result:

Sample A

Procedure:A

Test Speed:2.7 mm/min

| Test Item   | Flexural Strength, MPa |
|-------------|------------------------|
| Test Result | 93.3                   |

Notes:

- 1.Flexural strength was the maximum strength obtained over the 5% strain limit.
- 2.Test specimens were cut from the sample.



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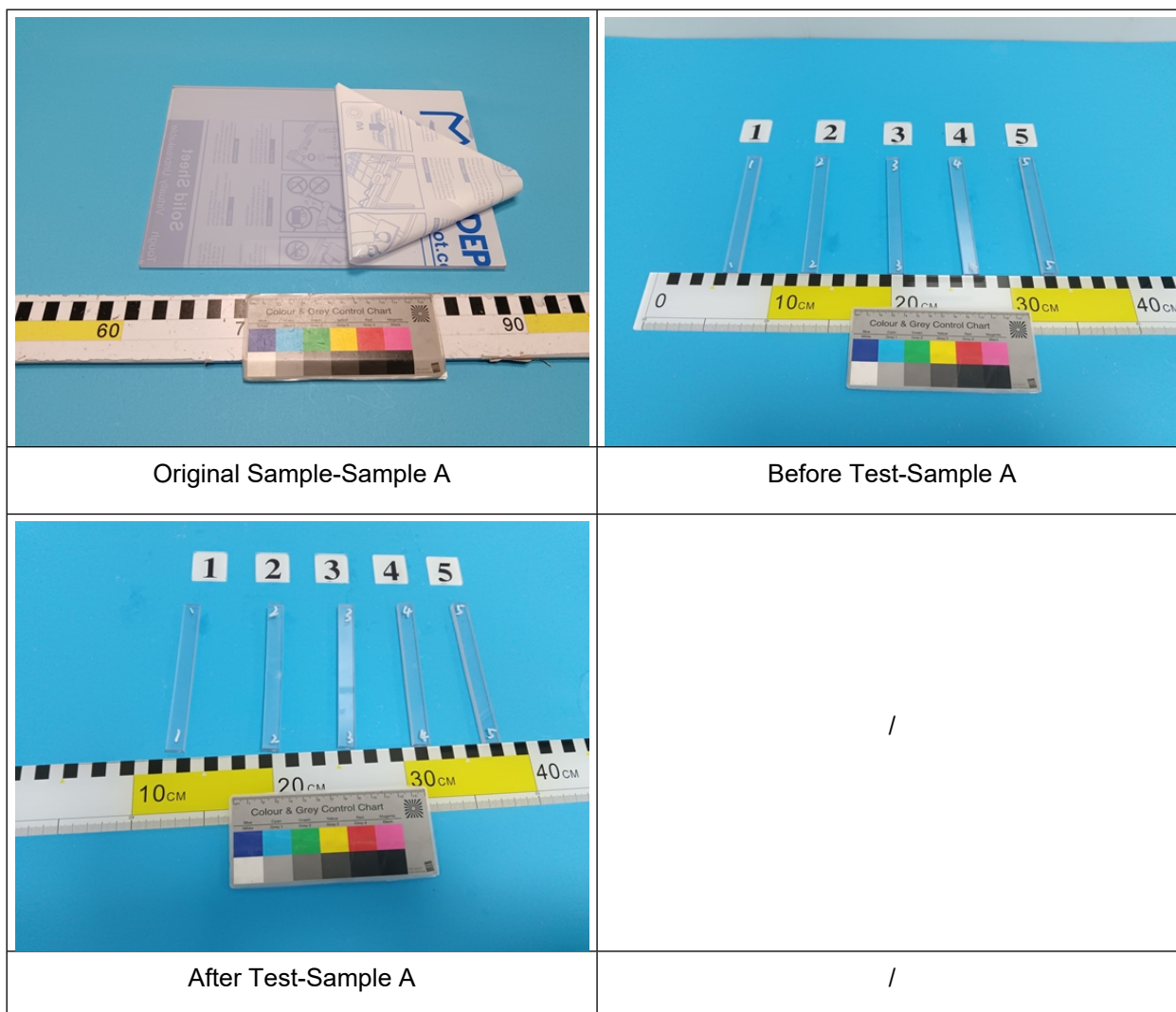
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### Equipment Information:

| Equipment Name            | Model            | Equipment No. | Calibration date | Next Calibration date |
|---------------------------|------------------|---------------|------------------|-----------------------|
| Universal testing machine | BZ2-MM010TN.ZW02 | P-406         | 2025-12-24       | 2026-12-23            |



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4. Test Item: Horizontal Burning; HB

Sample Description: A-Plastic panel

Test Method: UL 94-2023 Rev.2-2024 Section 7

Test Condition:

Specimen: (125±5) mm x(13.0±0.5)mm x 6.35 mm

Conditioning:(23±0.5) °C, (50±5) %RH, 48 h

Test Result:

Sample A

| Specimen | Burning distance,mm | Burning time,s | Burning rate, mm/min |
|----------|---------------------|----------------|----------------------|
| 1        | 0                   | 0              | 0                    |
| 2        | 0                   | 0              | 0                    |
| 3        | 0                   | 0              | 0                    |
| Average  | 0                   | 0              | 0                    |

Requirements of HB Classification:

- a) Not have a burning rate exceeding 40 mm per minute over a 75 mm span for specimens having a thickness of 3.0 to 13 mm, or
- b) Not have a burning rate exceeding 75 mm per minute over a 75 mm span for specimens having a thickness less than 3.0 mm, or
- c) Cease to burn before the 100 mm reference mark.

Classification: HB

Notes:

- 1. The flame extinguished before the 25 mm reference mark.
- 2. Test specimens were cut from the sample.



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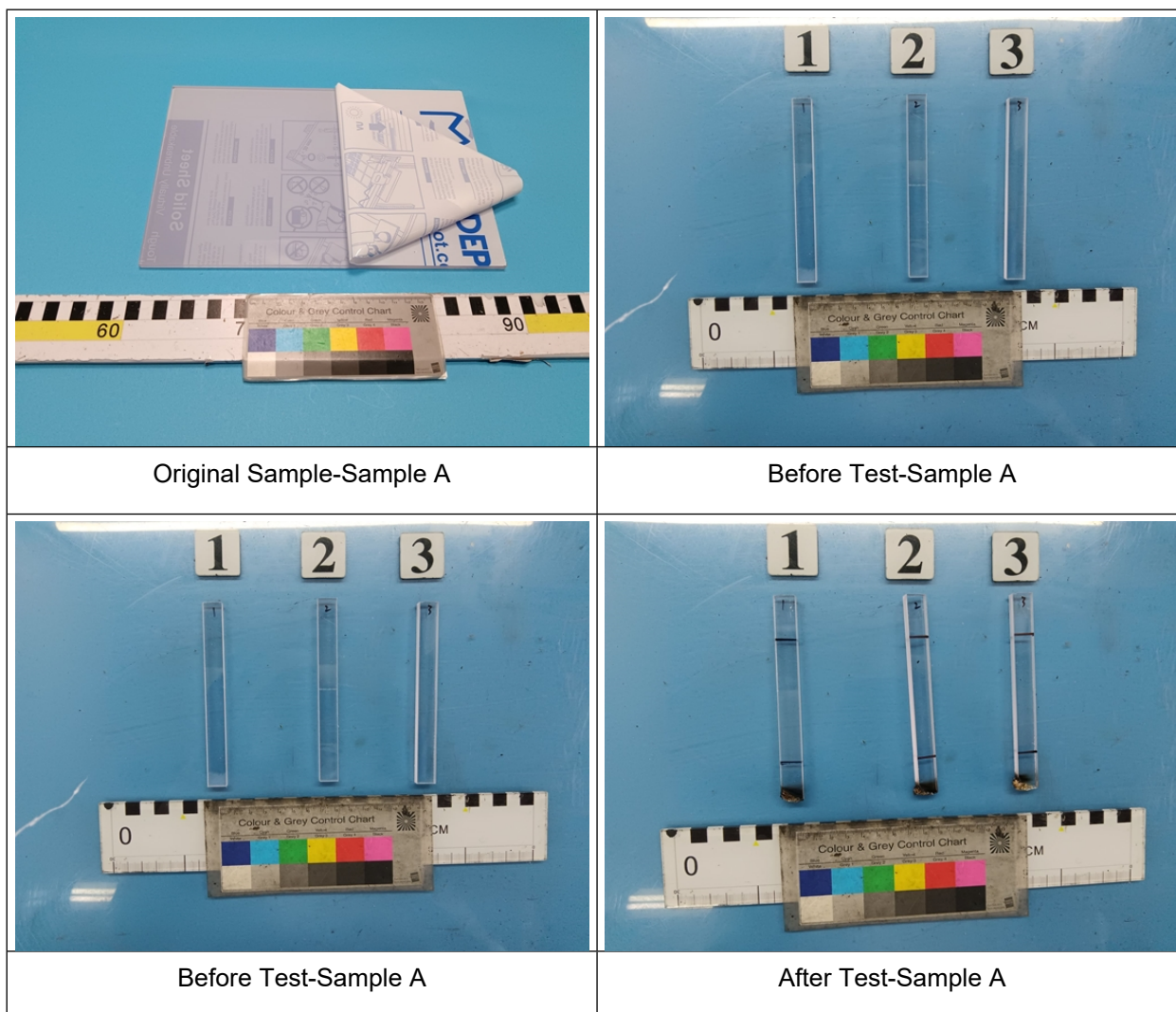
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### Equipment Information:

| Equipment Name                     | Model | Equipment No. | Calibration date | Next Calibration date |
|------------------------------------|-------|---------------|------------------|-----------------------|
| Horizon and vertical flame chamber | HVUL2 | P-596         | 2026-04-22       | 2027-04-21            |



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### 5. Test Item: Tensile Test

Sample Description: A-Plastic panel

Test Method: ASTM D638-22

Pretreatment Condition: (23 ± 2) °C, (50 ± 5) %RH, 48 h

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

Test Condition:

Gauge length: 50 mm

Test Result:

Sample A

Specimen Type:Type I

Test Speed:50 mm/min

Initial Grip Distance:115 mm

Specimen Thickness:6.426 mm

| Test Item   | Tensile Strength, MPa | Nominal Strain at Break, % |
|-------------|-----------------------|----------------------------|
| Test Result | 65.0                  | 43                         |

Notes:

Test specimens were cut from the sample.



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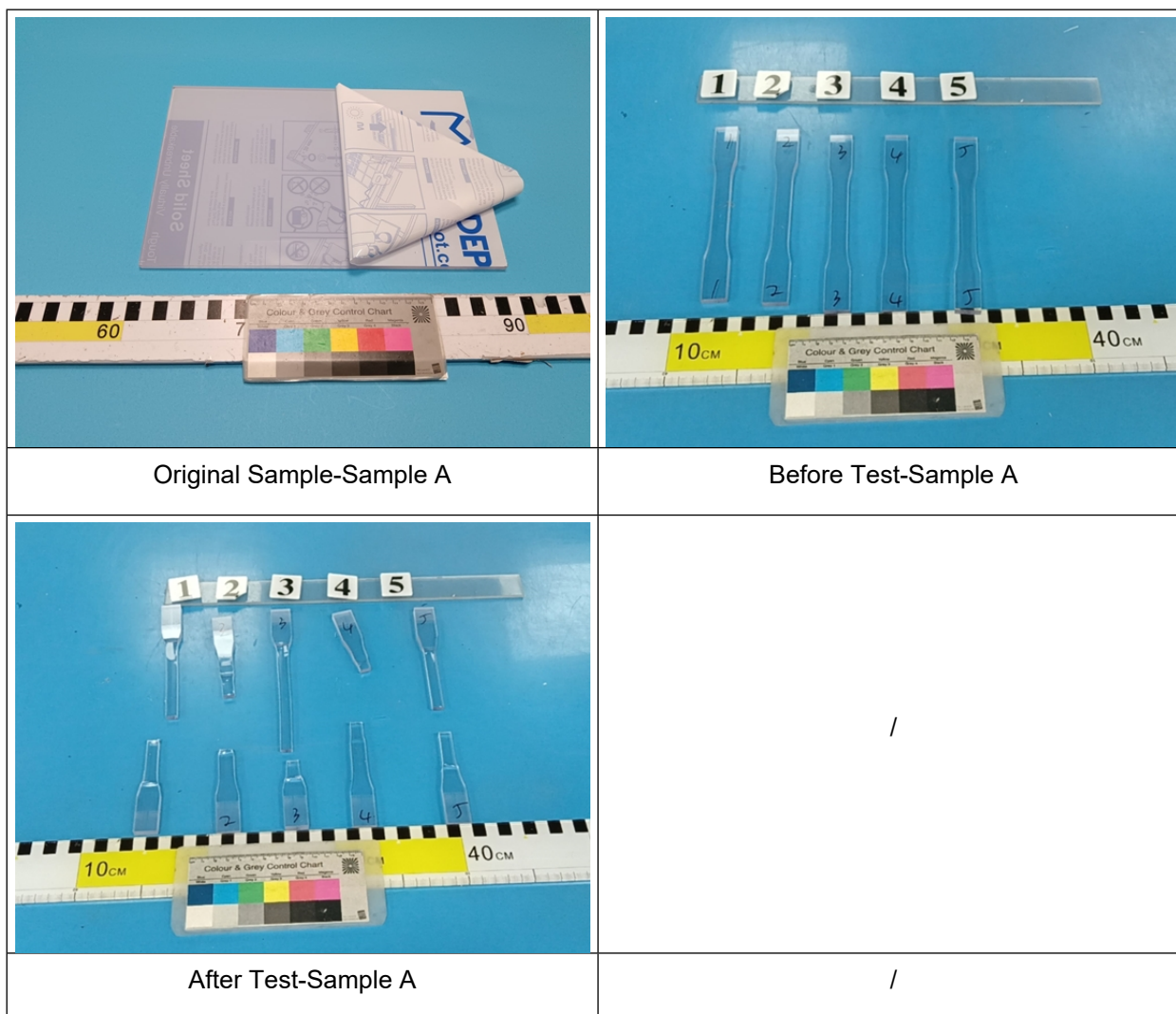
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### Equipment Information:

| Equipment Name            | Model           | Equipment No. | Calibration date | Next Calibration date |
|---------------------------|-----------------|---------------|------------------|-----------------------|
| Universal testing machine | BTC-EXMULTI.002 | P-499         | 2025-12-02       | 2026-12-01            |



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6. Test Item: Total Luminous Transmittance & Haze

Sample Description: A-Plastic panel

Test Method: ASTM D1003-21 Procedure A

Pretreatment Condition: (23 ± 2) °C, (50 ± 5) %RH, 40 h

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

Test Condition:

Specimen thickness: 6.4950mm

Test Result:

Sample A

Light source:C

| Test Item   | Total Luminous Transmittance, % | Haze, % |
|-------------|---------------------------------|---------|
| Test Result | 85.6                            | 0.4     |

Notes:

Test specimens were cut from the sample.



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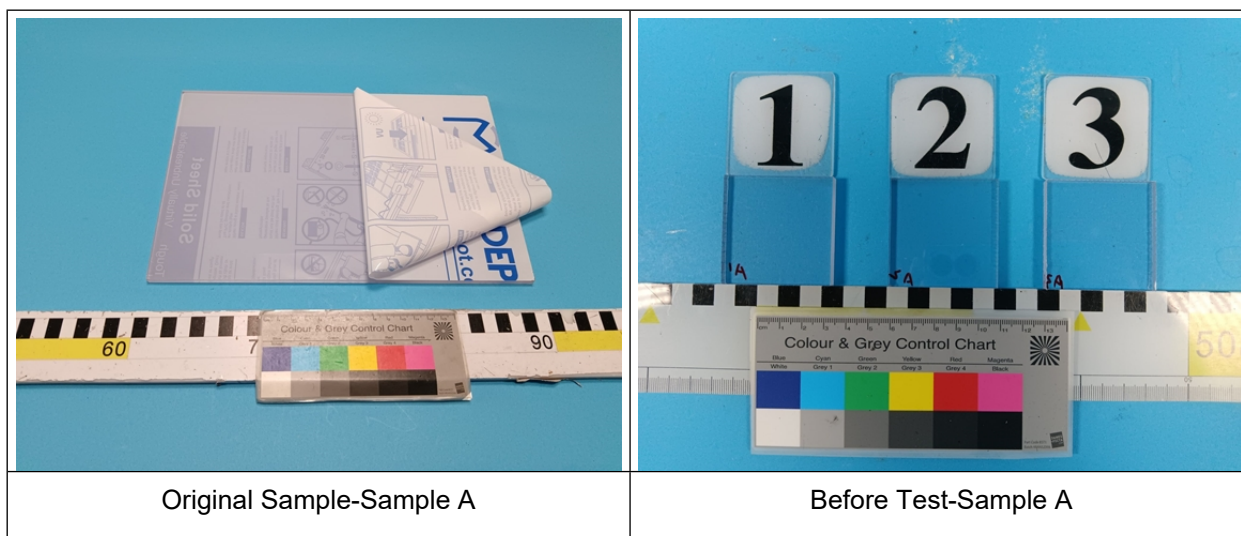
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Equipment Information:

| Equipment Name                       | Model      | Equipment No. | Calibration date | Next Calibration date |
|--------------------------------------|------------|---------------|------------------|-----------------------|
| Digital display type thickness gauge | TG-3130-A4 | P-965         | 2026-04-08       | 2027-04-07            |
| Haze Meter                           | NDH5000    | P-347         | 2025-10-24       | 2026-10-23            |



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## 7. Test Item: Linear Thermal Expansion

Sample Description: A-Plastic panel

Test Method: ASTM E831-25

Test Condition:

Length - Specimen: 10.12mm

Load: 50mN

Flow Rate(N2): 50mL/min

Test Result:

Sample A

Test Mode: Compression mode

Rate of temperature: 5 °C/min

Temperature Range: -30°C~30°C

Number of specimens tested: 1

Test Direction: Length

| Test Item   | Mean Coefficient of Linear Thermal Expansion, $\mu\text{m}/(\text{m} \cdot ^\circ\text{C})$ |
|-------------|---------------------------------------------------------------------------------------------|
| Test Result | 62.1                                                                                        |

Notes:

Test specimens were cut from the sample.



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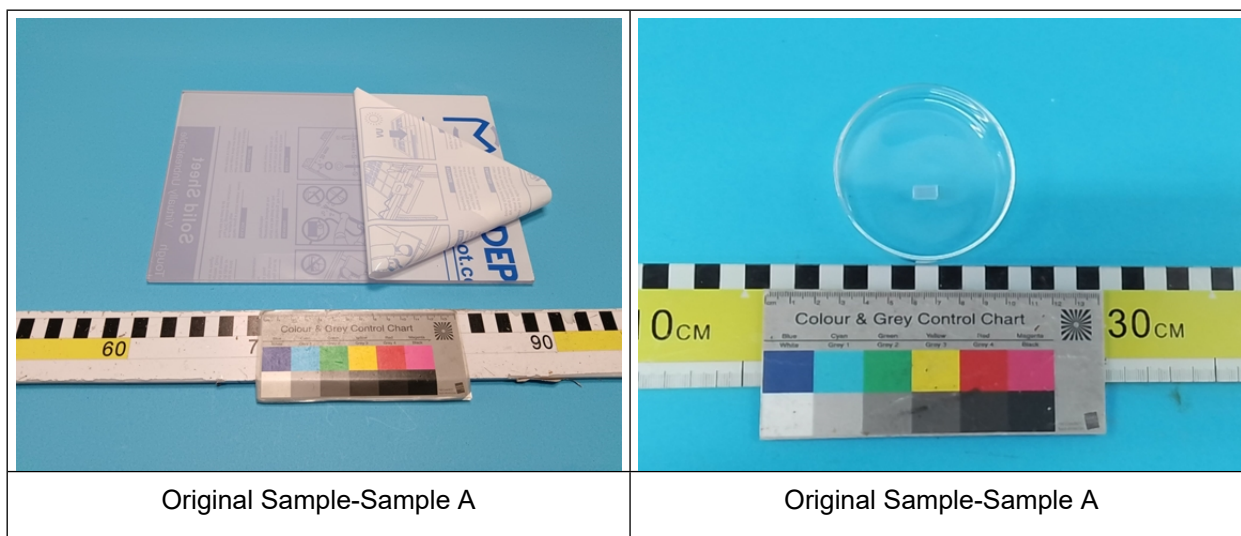
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Test Photo:



Equipment Information:

| Equipment Name                  | Model    | Equipment No. | Calibration date | Next Calibration date |
|---------------------------------|----------|---------------|------------------|-----------------------|
| Thermo Mechanical analysis(TMA) | TMA402F3 | P-916         | 2026-06-11       | 2027-06-10            |

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



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