

TEST REPORT

No.: SZIN2608002324PL03_EN

Issue Date: 2026-09-08

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CUSTOMER NAME: POMDEPOT LIMITED

ADDRESS: 17/ F, YAM TZE COMMERCIAL BUILDING, 23 THOMSON ROAD
WAN CHAI, HONG KONG.

Sample Name : M12N Natural Color POM

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. : GZMR260803011103; TJMR260800547803; SHMR260802174403

Sample Source : Customer-delivered

Date of Receipt : 2026-08-13

Testing Period : 2026-08-13 ~ 2026-09-08

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 and on behalf of
SGS-CSTC Standards Technical Services Co., Ltd. ShenZhen Branch

Jessie

Jessie Ho

Authorized signatory

Scan to see the report



SZIN2608002324PL03
Verification:
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Summary of Results:

No.	Test Item	Test Method	Result
1	Dielectric Strength	ASTM D149-25	See result
2	Surface Resistivity	ASTM D257-14(Reapproved 2021)ε1	See result
3	Deflection Temperature under Load	ASTM D648-18	115.8°C
4	Compressive Test	ASTM D695-26	91.7 MPa
5	Shear Strength	ASTM D732-24	52.5 MPa
6	Charpy Notched Impact Strength	ASTM D6110-18	125J/m
7	Flexural Test	ASTM D790-25	See result
8	Tensile Modulus	ASTM D638-22	2690MPa
9	Tensile Test	ASTM D638-22	See result
10	Rockwell Hardness	ASTM D785-23	M80.4
11	Water Absorption	ASTM D570-22	See result
12	Density	ASTM D792-20	1410kg/m ³
13	Mean Coefficient of Linear Thermal Expansion	ISO 11359-2:2021	146x10 ⁻⁶ K ⁻¹
14	Melting Temperature (Tm)	ISO 11357-3:2025	See result
15	Thermal Conductivity (Transient Plane Heat Source Method)	ISO 22007-2:2022	0.50 W/(m·K)
16	Relative Permittivity	ASTM D150-22	See result



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1. Test Item: Dielectric Strength

Sample Description: A-Sheet

Test Method: ASTM D149-25

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

Test Result:

Sample A

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

Method of voltage application:Short-time (rapid-rise) test, 3000 V/s

Voltage type:AC 50 Hz

Test Temperature:(23±2) °C

Surround Medium:Transformer Oil

Electrode Type:Unequal diameter electrode (Ø 25/75 mm)

Specimen	Specimen Thickness,mm	Dielectric Breakdown Voltage,kV	Dielectric Strength,kV/mm
1	5.84	58.48	10.01
2	5.86	59.21	10.10
3	5.85	56.58	9.67
4	5.86	57.73	9.85
5	5.86	59.82	10.21
Average	N/A	58.36	9.97

Notes: Test specimens were cut from the sample.



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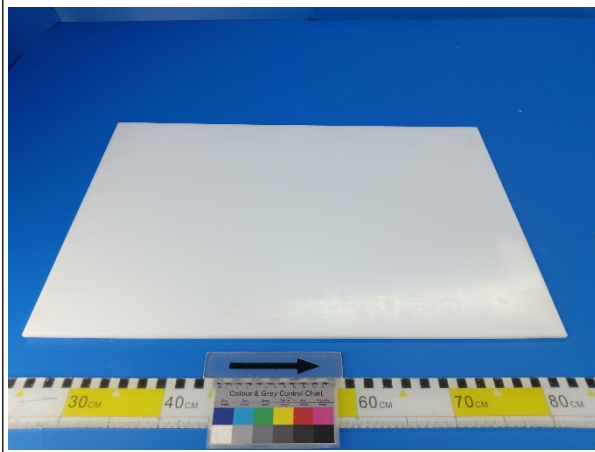
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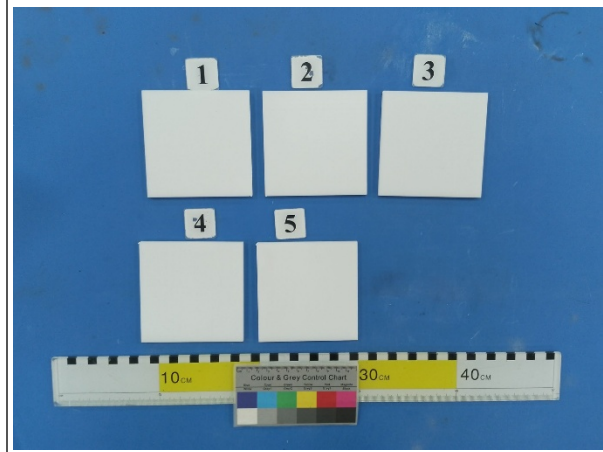
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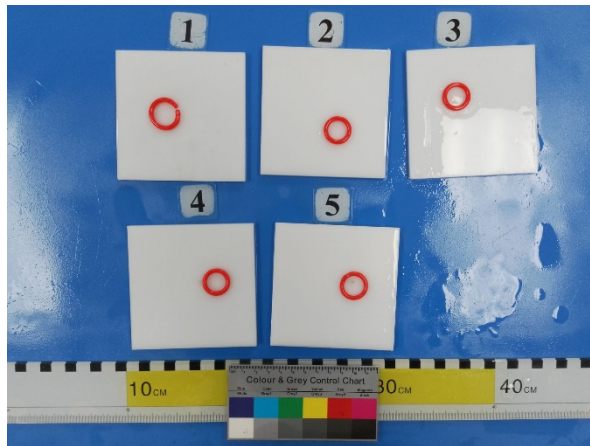
Test Photo:



Original Sample-Sample A



Before Test-Sample A



After Test-Sample A

Equipment Information:

Equipment Name	Model	Equipment No.	Calibration date	Next Calibration date
Dielectric Breakdown Voltage Tester	DJC-100KV	GZMR-PL-E154-01	2026-04-30	2027-04-29
Digital Micrometer	MDC-1"MX	GZMR-PL-E048-10	2026-08-06	2027-08-05



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2. Test Item: Surface Resistivity

Sample Description: A-Sheet

Test Method: ASTM D257-14(Reapproved 2021)ε1

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

Test Result:

Sample A

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

Test Electrode:D1=76 mm, D2=88 mm

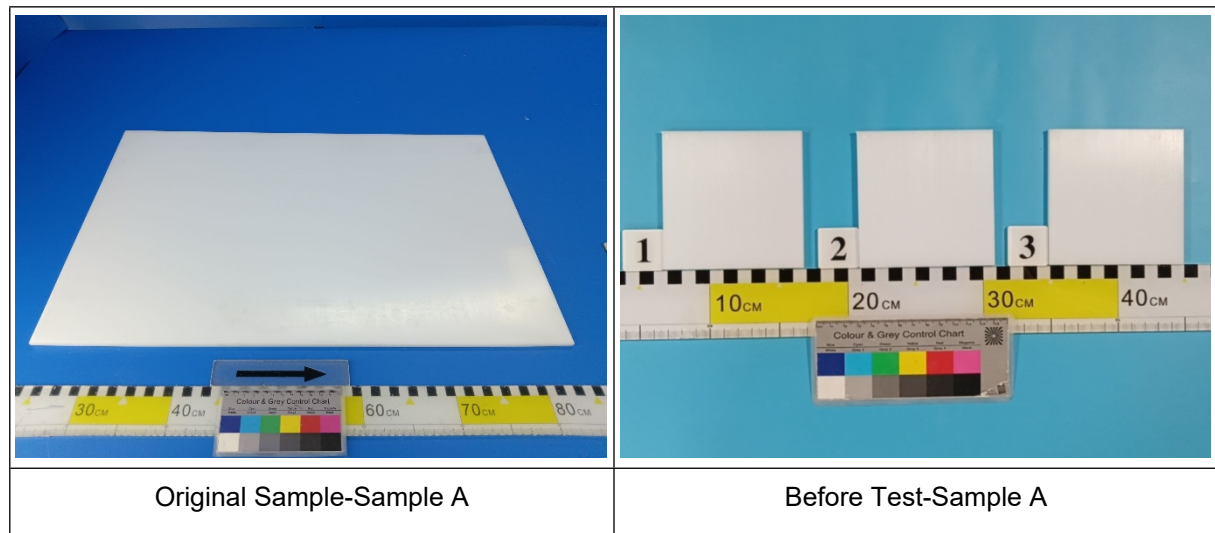
Test Voltage:500 Vdc

Test Duration:1 min

Specimen	Surface Resistance,Ω	Surface Resistivity,Ω
1	8.92e+12	3.83e+14
2	1.12e+13	4.81e+14
3	9.02e+12	3.87e+14
Average	9.71e+12	4.17e+14

Notes: e+n refers to 10ⁿ, for example, 1.00E+03 is equivalent to 1.00×10³.

Test Photo:



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After Test-Sample A

Equipment Information:

Equipment Name	Model	Equipment No.	Calibration date	Next Calibration date
Digital Super Megohmmeter	DSM-8104	P-410	2025-12-02	2026-12-01
Annular electrode	-	P-410-3	2026-01-07	2027-01-06



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3. Test Item: Deflection Temperature under Load

Sample Description: A-Sheet

Test Method: ASTM D648-18

Test Result:

Sample A

Test Method:B

Force Applied:1.82 MPa

Span:100 mm

Specimen Length:127 mm

Specimen Width:5.84 mm

Specimen Depth:12.80 mm

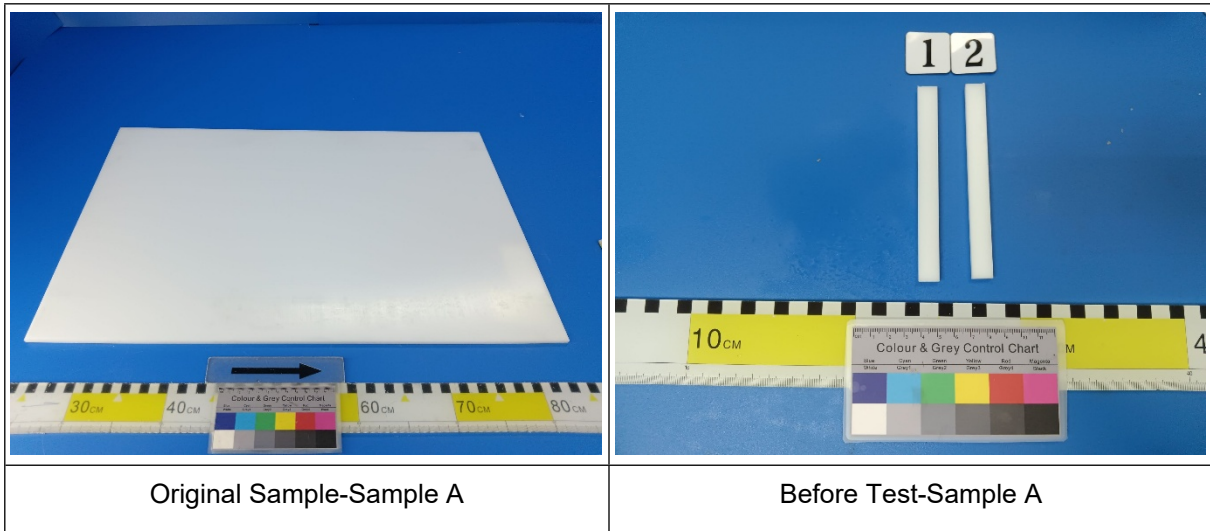
Heat-Transfer Media:Silicone Oil

Rate of Temperature:120°C/h

Test Item	Deflection Temperature under Load, °C
Test Result	115.8

Notes: Test specimens were cut from the sample.

Test Photo:

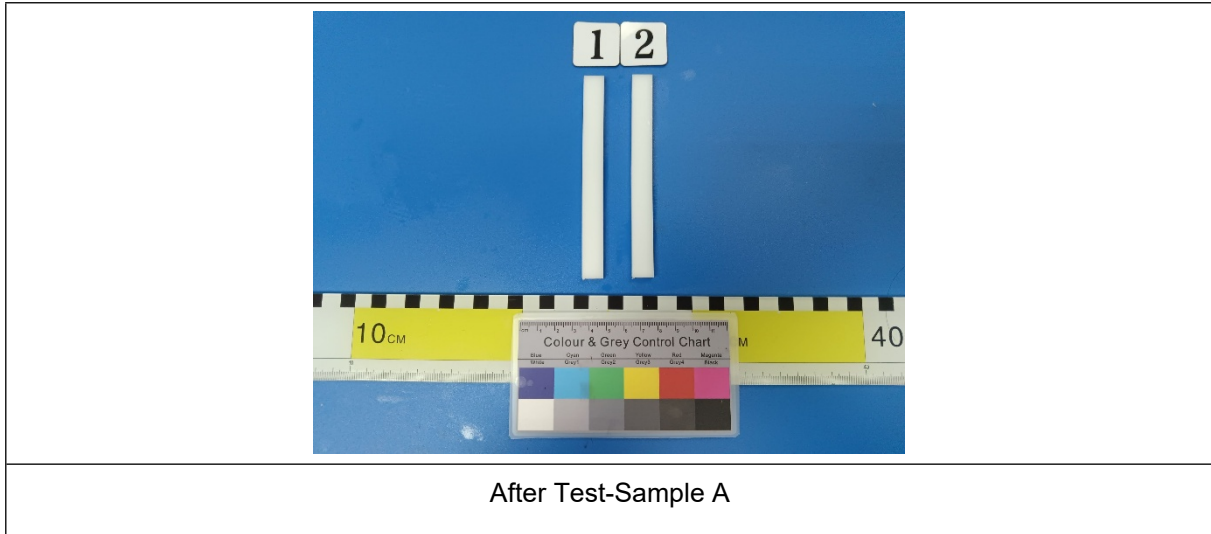


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Equipment Information:

Equipment Name	Model	Equipment No.	Calibration date	Next Calibration date
HDT and VICAT Tester	6970.000	GZMR-PL-E091	2026-02-27	2027-02-26



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4. Test Item: Compressive Test

Sample Description: A-Sheet

Test Method: ASTM D695-26

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

Test Result:

Sample A

Test/Stress Direction:Length Direction

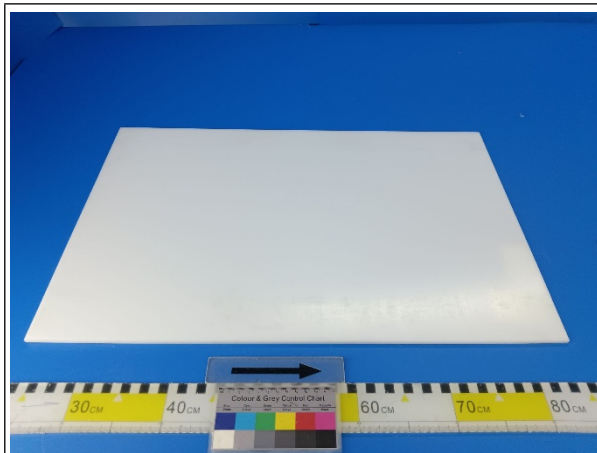
Test Speed:1.3 mm/min

Specimen: 12.9 mm × 12.8 mm × 5.79 mm

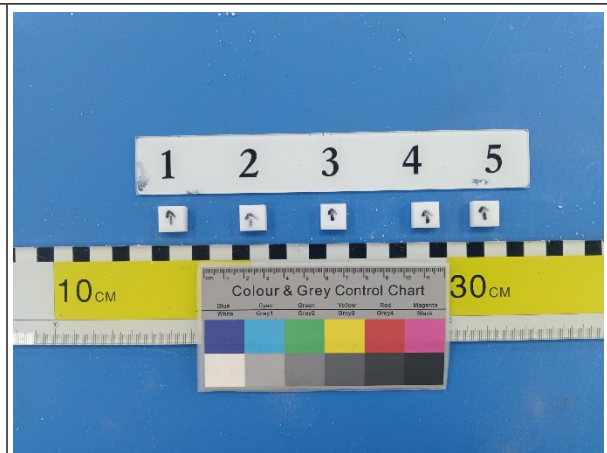
Test Item	Compressive Stress at 10% Strain, MPa
Test Result	91.7

Notes: Test specimens were cut from the sample.

Test Photo:



Original Sample-Sample A



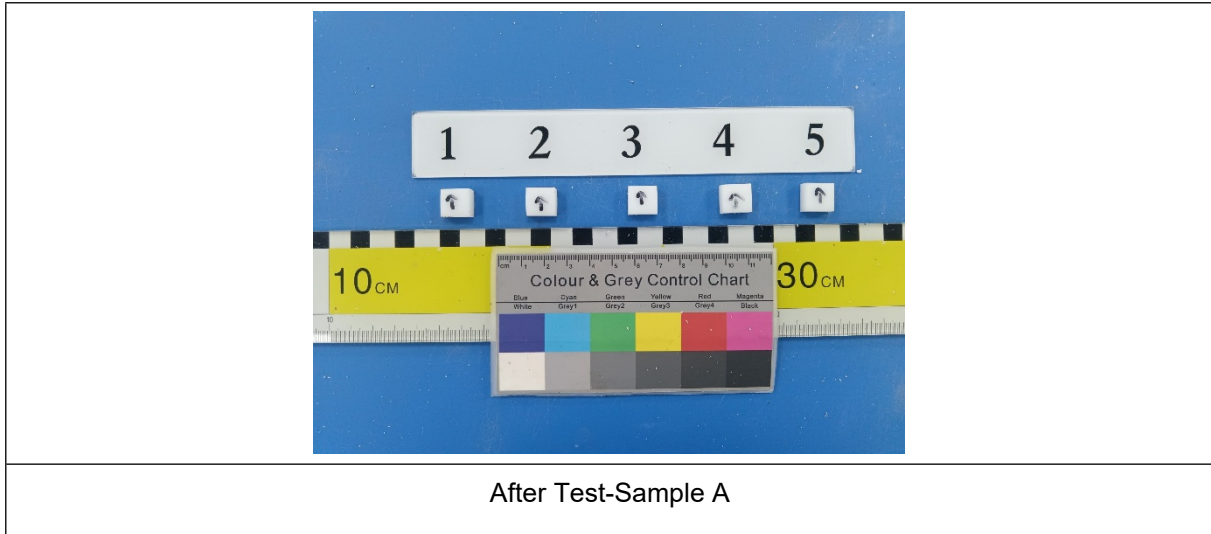
Before Test-Sample A

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Equipment Information:

Equipment Name	Model	Equipment No.	Calibration date	Next Calibration date
Universal testing machine	E45.105	GZMR-PL-E307	2025-11-06	2026-11-05



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5. Test Item: Shear Strength

Sample Description: A-Sheet

Test Method: ASTM D732-24

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

Test Result:

Sample A

Specimen Thickness: 5.79 mm

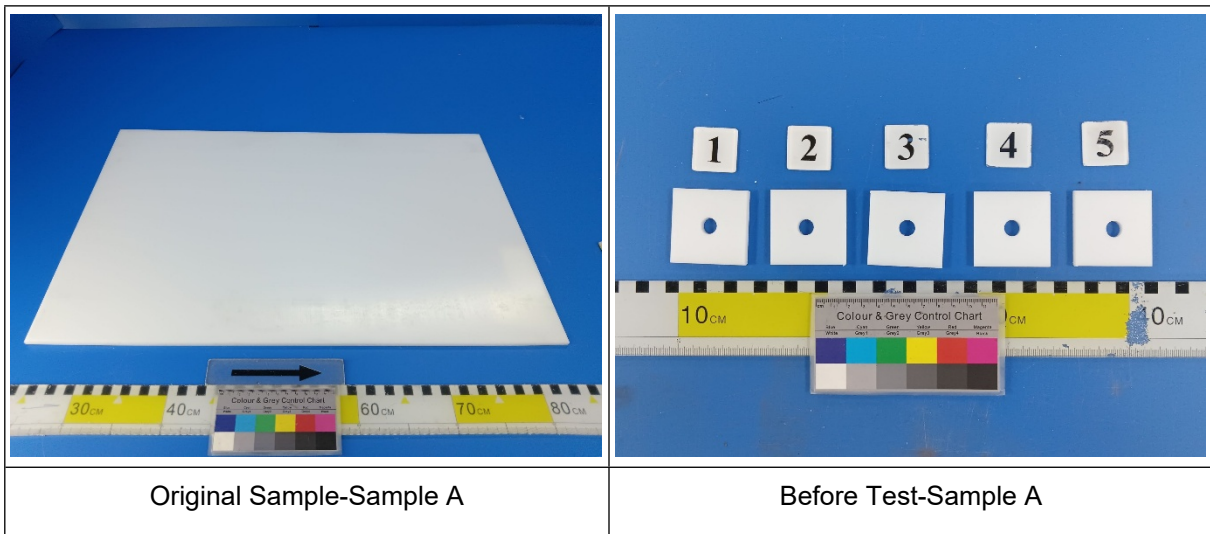
Punch Diameter: 25.37 mm

Test Speed: 1.27 mm/min

Test Item	Shear Strength, MPa
Test Result	52.5

Notes: Test specimens were cut from the sample.

Test Photo:



Original Sample-Sample A

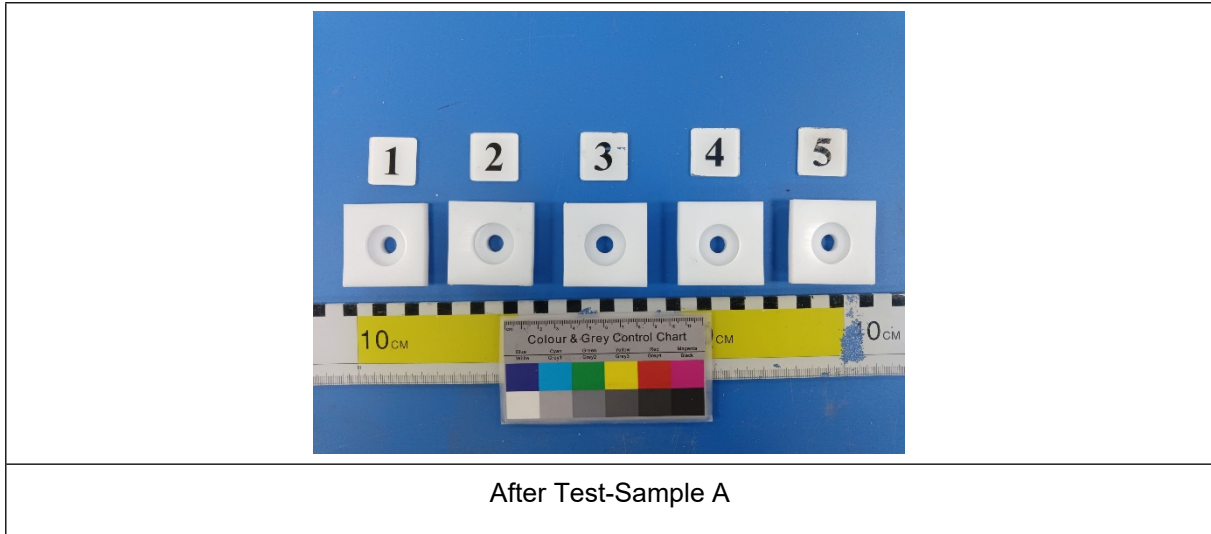
Before Test-Sample A

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Equipment Information:

Equipment Name	Model	Equipment No.	Calibration date	Next Calibration date
Universal testing machine	E45.105	GZMR-PL-E307	2025-11-06	2026-11-05



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6. Test Item: Charpy Notched Impact Strength

Sample Description: A-Sheet

Test Method: ASTM D6110-18

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

Test Result:

Sample A

The Capacity of the Pendulum: 2.7 J

Impact Speed: 3.5 m/s

Specimen Width: 5.86 mm

Specimen remaining thickness at notch base: 10.17 mm

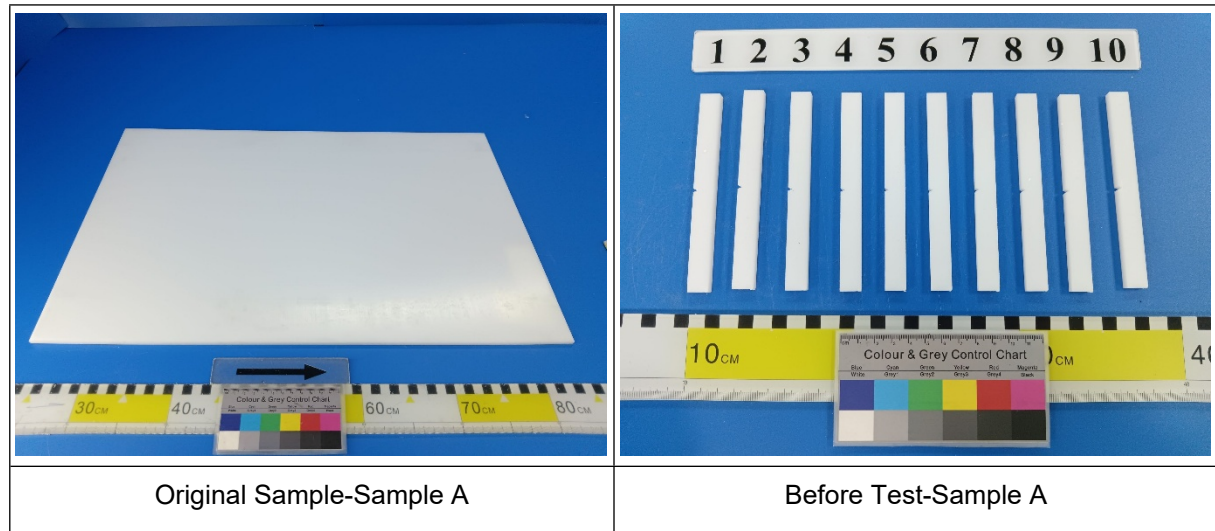
Span: 101.6 mm

Test Item	Charpy Notched Impact Strength, J/m
Test Result	125

Notes:

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

Test Photo:



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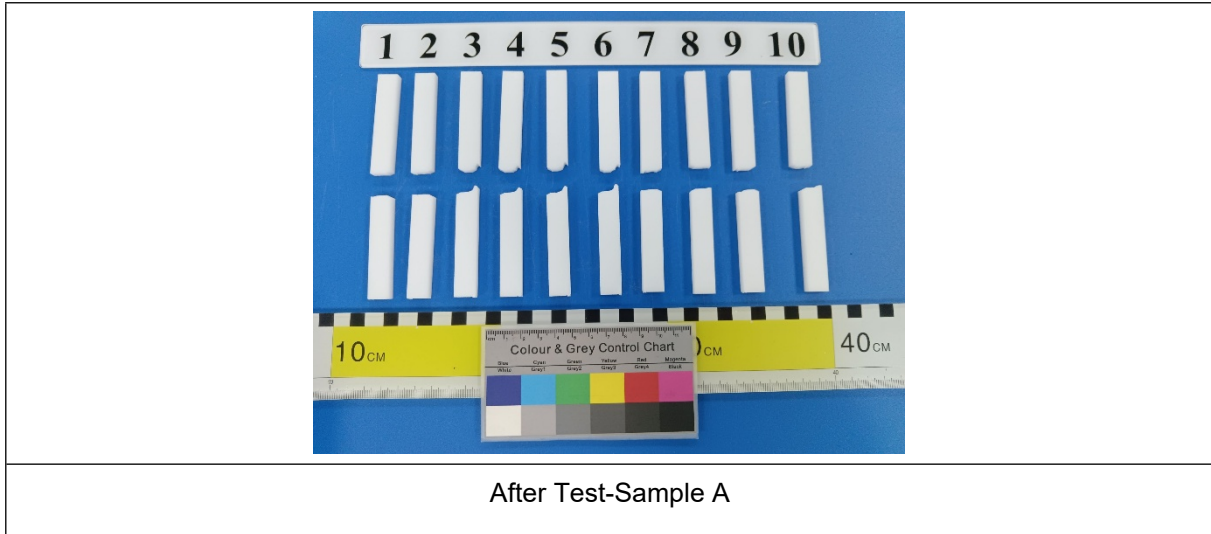
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Equipment Information:

Equipment Name	Model	Equipment No.	Calibration date	Next Calibration date
Impact Tester	HIT50P	GZMR-PL-E283	2026-03-03	2027-03-02



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7. Test Item: Flexural Test

Sample Description: A-Sheet

Test Method: ASTM D790-25

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

Test Result:

Sample A

Procedure:A

Span:94 mm

Test Speed:2.5 mm/min

Test Temperature:Room temperature

Specimen Length:120 mm

Specimen Width:12.8 mm

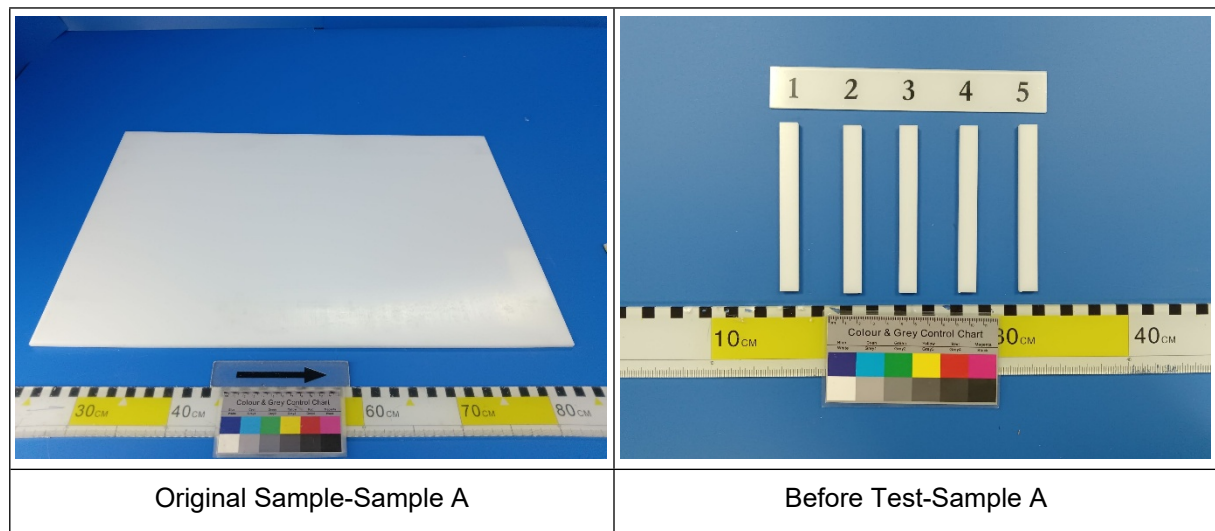
Specimen Thickness:5.87 mm

Test Item	Flexural Strength, MPa	Flexural Modulus, MPa
Test Result	90.3	2900

Notes:

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

Test Photo:

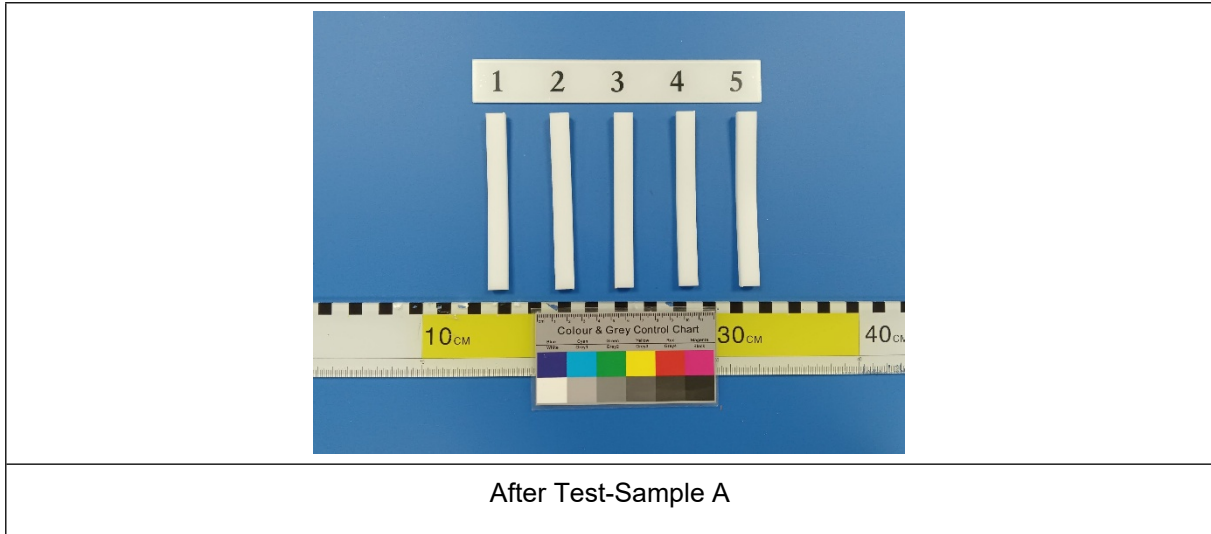


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Equipment Information:

Equipment Name	Model	Equipment No.	Calibration date	Next Calibration date
Universal testing machine	Z2.5	GZMR-PL-E370	2026-01-15	2027-01-14



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8. Test Item: Tensile Modulus

Sample Description: A-Sheet

Test Method: ASTM D638-22

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

Test Result:

Sample A

Specimen Type: Type I

Test Speed: 5 mm/min

Test Temperature: Room temperature

Gauge Length: 50 mm

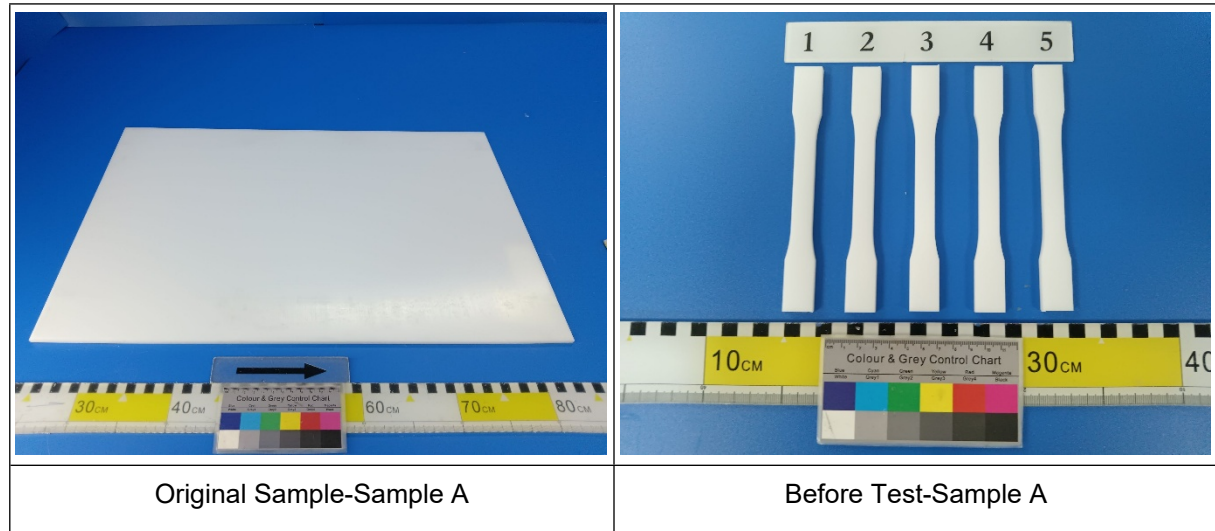
Initial Grip Distance: 115 mm

Specimen Thickness: 5.84 mm

Test Item	Tensile Modulus, MPa
Test Result	2690

Notes: Test specimens were cut from the sample.

Test Photo:

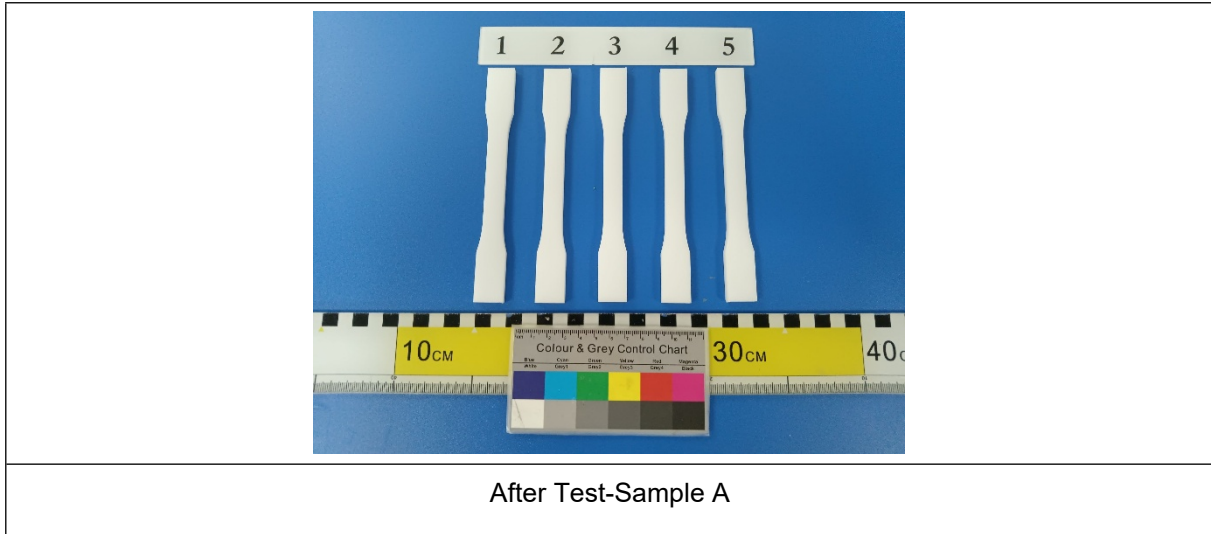


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Equipment Information:

Equipment Name	Model	Equipment No.	Calibration date	Next Calibration date
Automation Universal Testing Machine	Z020	GZMR-PL-E399	2026-03-20	2027-03-19



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9. Test Item: Tensile Test

Sample Description: A-Sheet

Test Method: ASTM D638-22

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

Test Result:

Sample A

Specimen Type: Type I

Test Speed: 5 mm/min

Test Temperature: Room temperature

Gauge Length: 50 mm

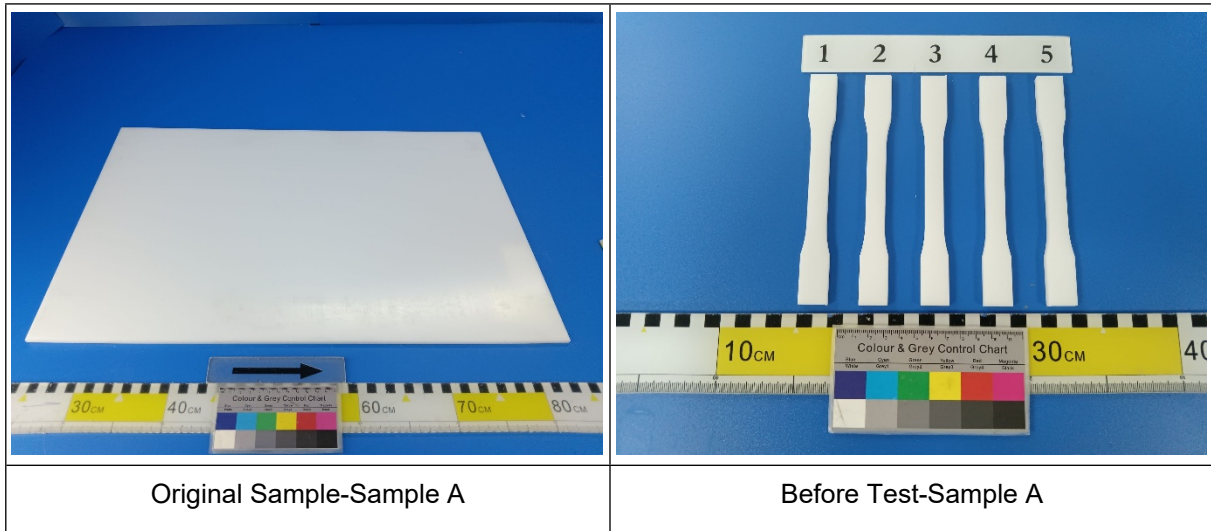
Initial Grip Distance: 115 mm

Specimen Thickness: 5.84 mm

Test Item	Tensile Strength, MPa	Nominal Strain at Break, %
Test Result	59.8	22

Notes: Test specimens were cut from the sample.

Test Photo:

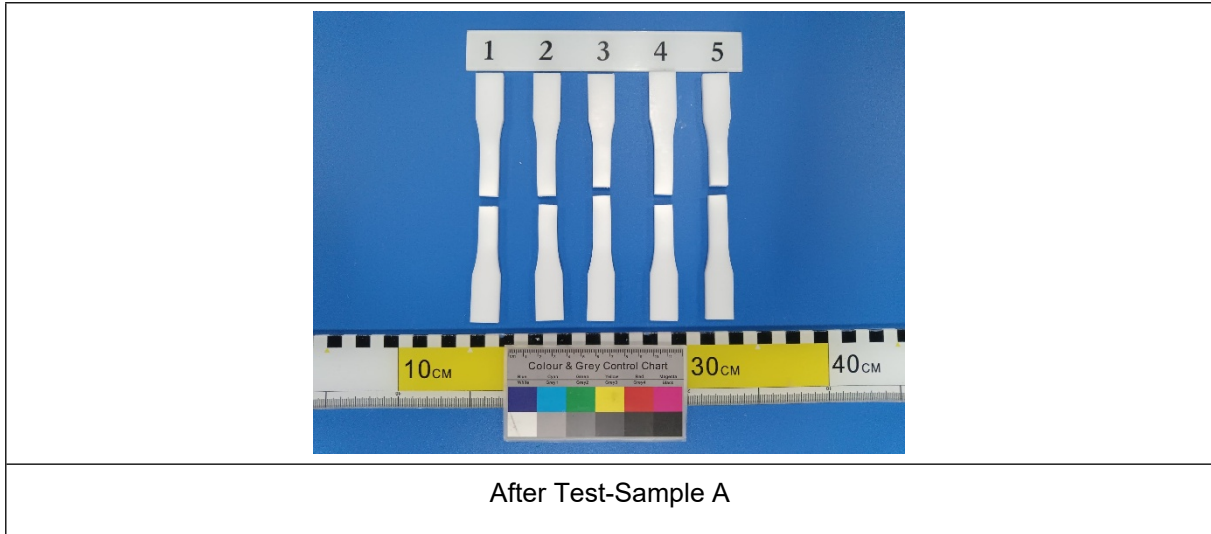


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Equipment Information:

Equipment Name	Model	Equipment No.	Calibration date	Next Calibration date
Automation Universal Testing Machine	Z020	GZMR-PL-E399	2026-03-20	2027-03-19



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10. Test Item: Rockwell Hardness

Sample Description: A-Sheet

Test Method: ASTM D785-23

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

Test Result:

Sample A

Scale Plate:M

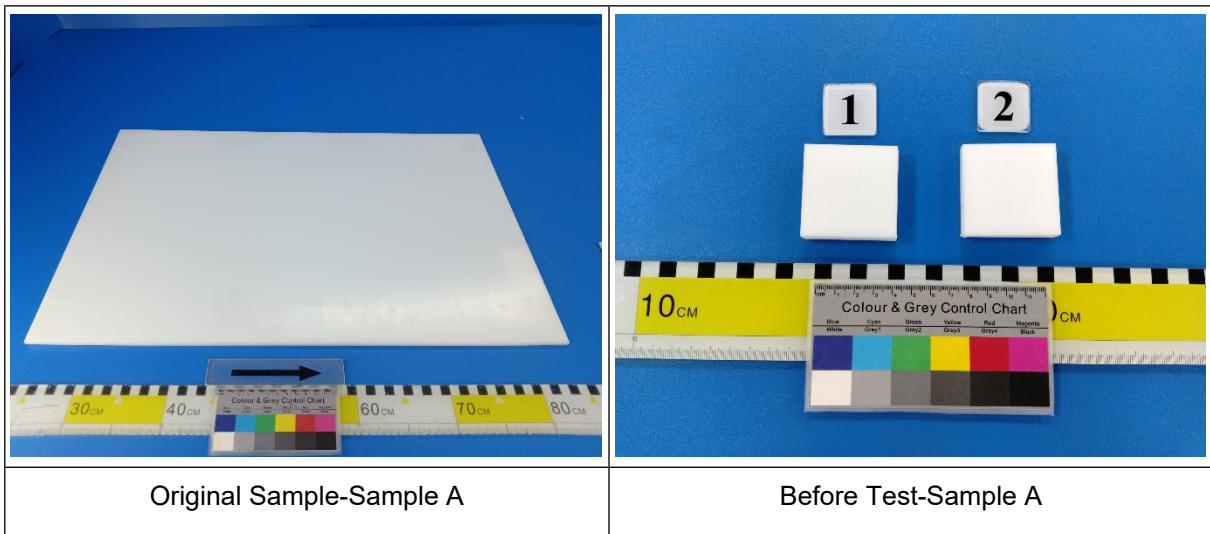
Procedure:A

Specimen thickness: 11.6 mm (2 layers plied up)

Test Item	Rockwell Hardness
Test Result	M80.4

Notes: Test specimens were cut from the sample.

Test Photo:



Original Sample-Sample A

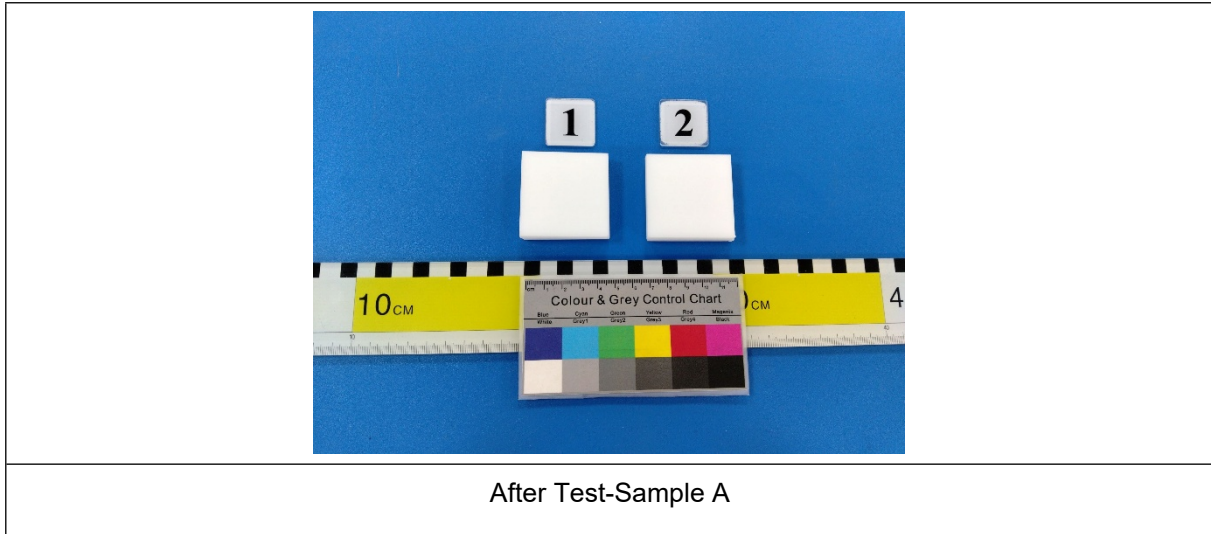
Before Test-Sample A

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Equipment Information:

Equipment Name	Model	Equipment No.	Calibration date	Next Calibration date
Rockwell Hardness Testing Machine	560RSS	GZMR-MT-E140	2026-06-25	2027-06-24



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11. Test Item: Water Absorption

Sample Description: A-Sheet

Test Method: ASTM D570-22

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

Test Result:

Sample A-Condition 1

Dry Condition:(50±2) °C, (24±1) h

Immerse Condition:(23 ± 1) °C, 24 h

Specimen: 76.1mm×25.4mm×5.79mm

Test Item	Water Absorption, %
Test Result	0.11

Notes:

1. Test specimens were cut from the sample.
2. Water absorption, %=(Mass after immersion-Mass after drying and before immersion)/Mass after drying and before immersion×100.

Sample A-Condition 2

Dry Condition:(50±2) °C, (24±1) h

Immerse Condition:Soak at 23°C until fully saturated

Specimen: 75.9mm×25.4mm×5.78mm

Test Item	Saturation Water Absorption, %
Test Result	0.14

Notes:

1. Test specimens were cut from the sample.
2. Water absorption, %=(Mass after immersion-Mass after drying and before immersion)/Mass after drying and before immersion×100.



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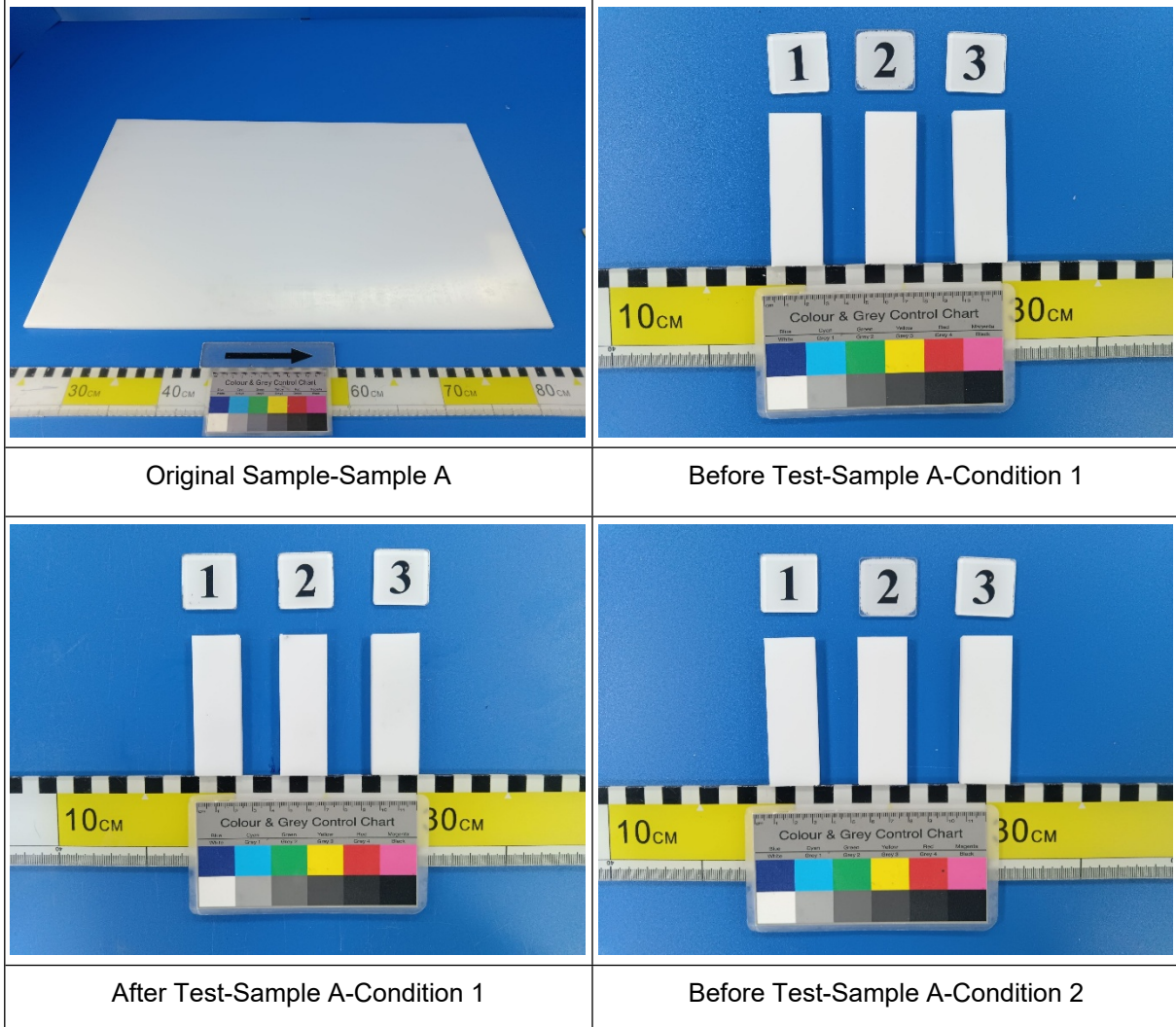
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Test Photo:

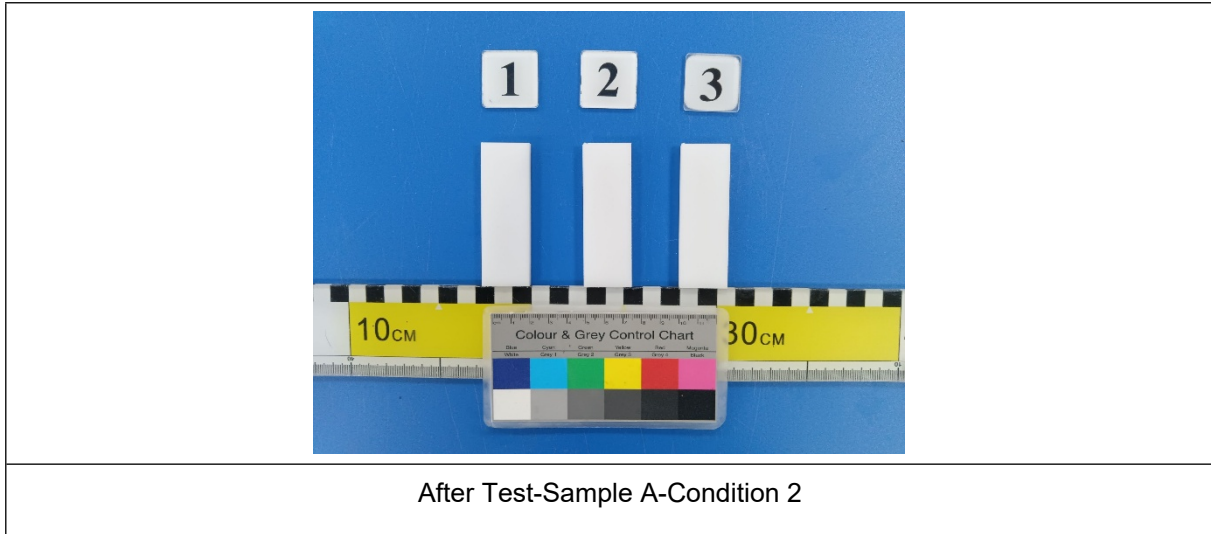


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Equipment Information:

Equipment Name	Model	Equipment No.	Calibration date	Next Calibration date
Electron Balance	XPE404S	GZMR-PL-E004-07	2026-05-22	2027-05-21
Oven	UF110	GZMR-PL-E317	2025-12-04	2026-12-03



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12. Test Item: Density

Sample Description: A-Sheet

Test Method: ASTM D792-20

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

Test Result:

Sample A

Method:B

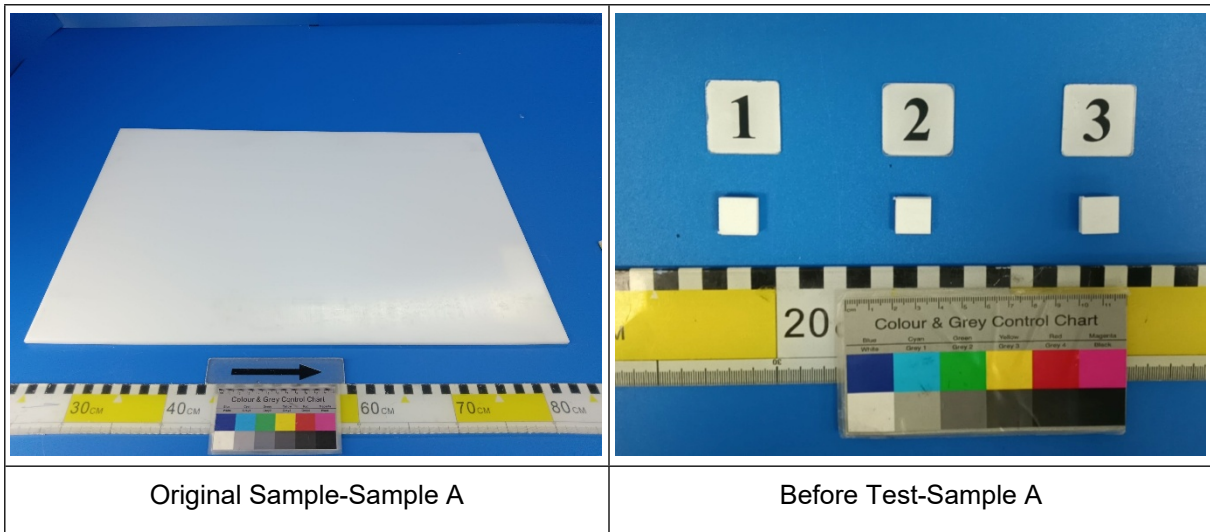
Immersion Liquid:Absolute Alcohol

Test Temperature:(23 ± 0.5) °C

Test Item	Density, kg/m ³
Test Result	1410

Notes: Test specimens were cut from the sample.

Test Photo:



Original Sample-Sample A

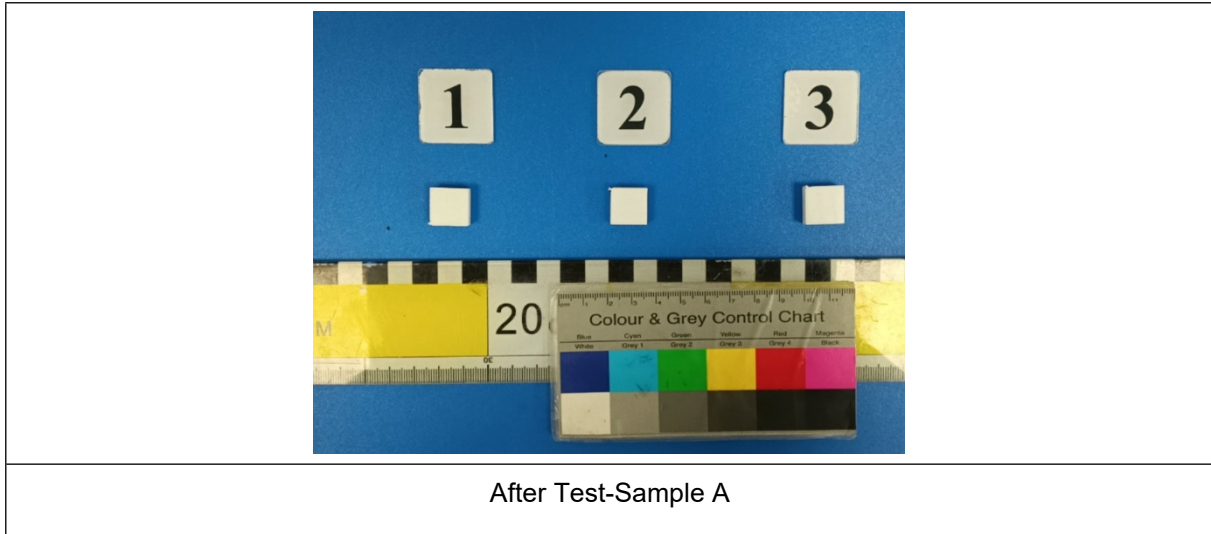
Before Test-Sample A

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Equipment Information:

Equipment Name	Model	Equipment No.	Calibration date	Next Calibration date
Electron balance	XPE204	GZMR-PL-E004-06	2026-02-28	2027-02-27



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13. Test Item: Mean Coefficient of Linear Thermal Expansion

Sample Description: A-Sheet

Test Method: ISO 11359-2:2021

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

Test Result:

Sample A

Test Mode: Compression mode

Rate of Temperature: 5 °C/min

Temperature Range: -40°C~150°C

Number of specimens tested: 3

Test Direction: Longitudinal direction

Test Method: A

Specimen: 10.02 mm×5.84 mm×5.24 mm

Load: 50 mN

Flow Rate(N₂): 50mL/min

Test Item	Mean Coefficient of Linear Thermal Expansion, x10 ⁻⁶ K ⁻¹
Test Result	146

Notes: Test specimens were cut from the sample.



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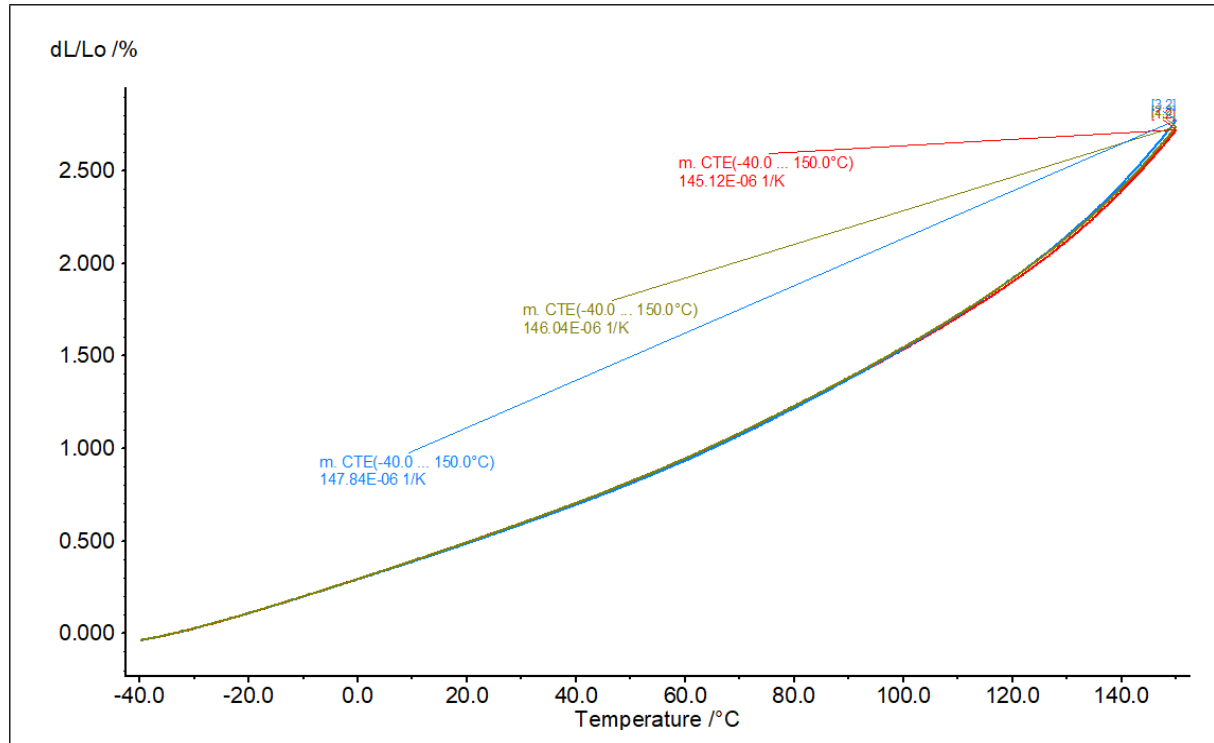
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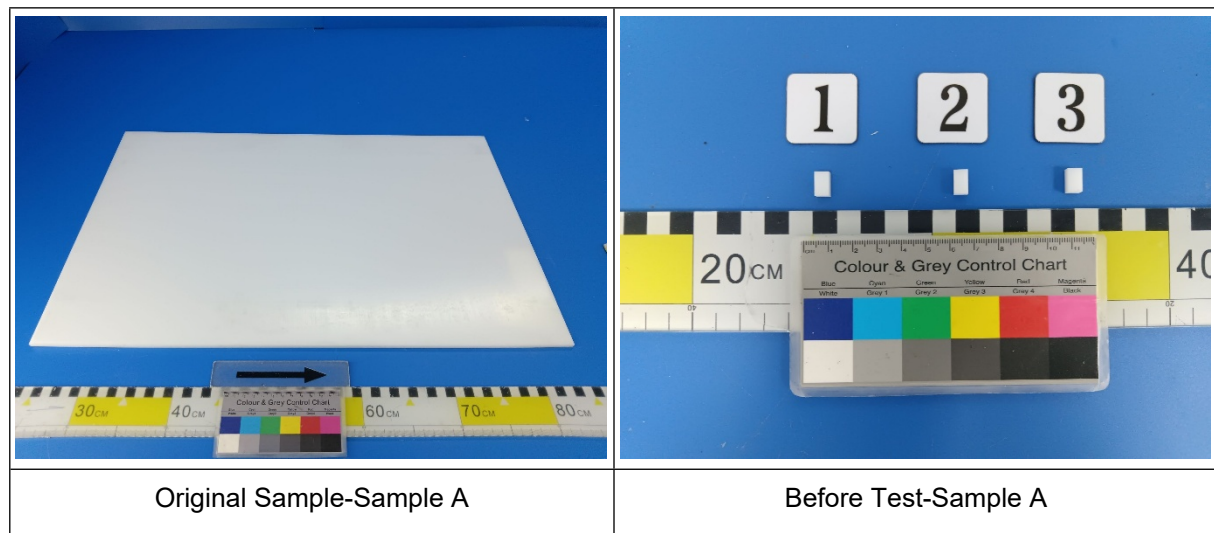
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Curve

Sample A



Test Photo:



Original Sample-Sample A

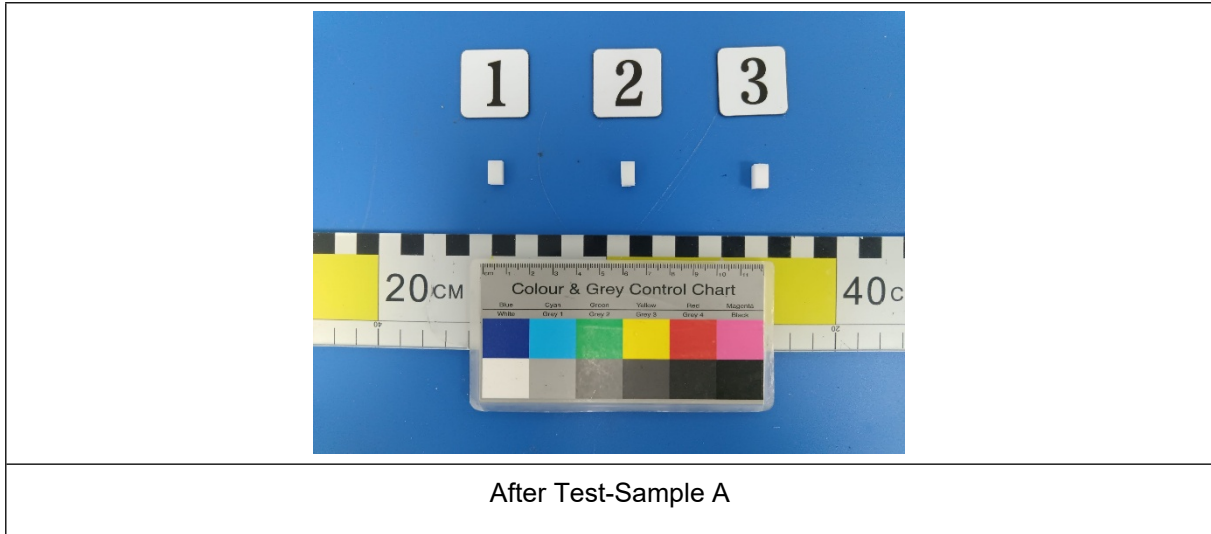
Before Test-Sample A

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Equipment Information:

Equipment Name	Model	Equipment No.	Calibration date	Next Calibration date
Thermo Mechanical Analyzer	TMA402F3	GZMR-PL-E371	2026-06-08	2027-06-07



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14. Test Item: Melting Temperature(Tm)

Sample Description: A-Sheet

Test Method: ISO 11357-3:2025

Test Condition:

Type of Sample Aontainer:Al

Purge gas flow rate:Nitrogen, 50mL/min

Ramp:10 °C/min

Temperature Range:40°C - 200°C

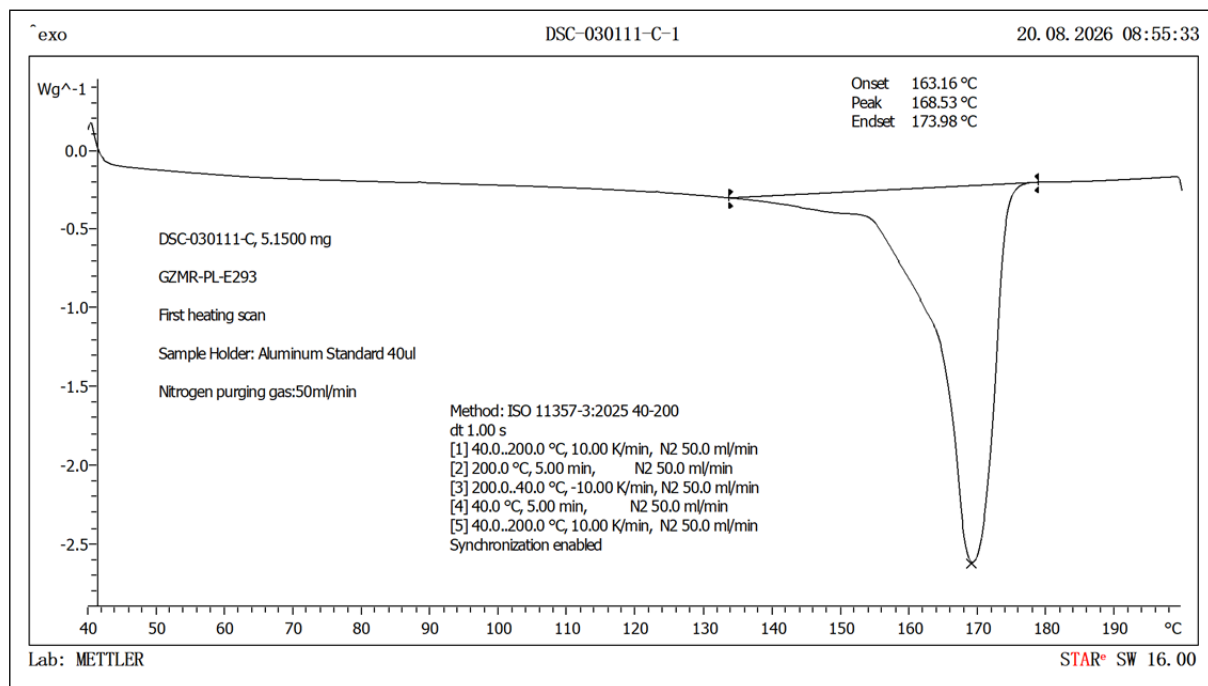
Test Result:

Sample A

Test Item	First heating scan	Second heating scan
Melting extrapolated onset temperature, Teim ₁ , °C	163.2	160.0
Melting peak temperature, Tpm ₁ , °C	168.5	166.9
Melting extrapolated end temperature, Tefm ₁ , °C	174.0	172.7

Appendix

Sample A



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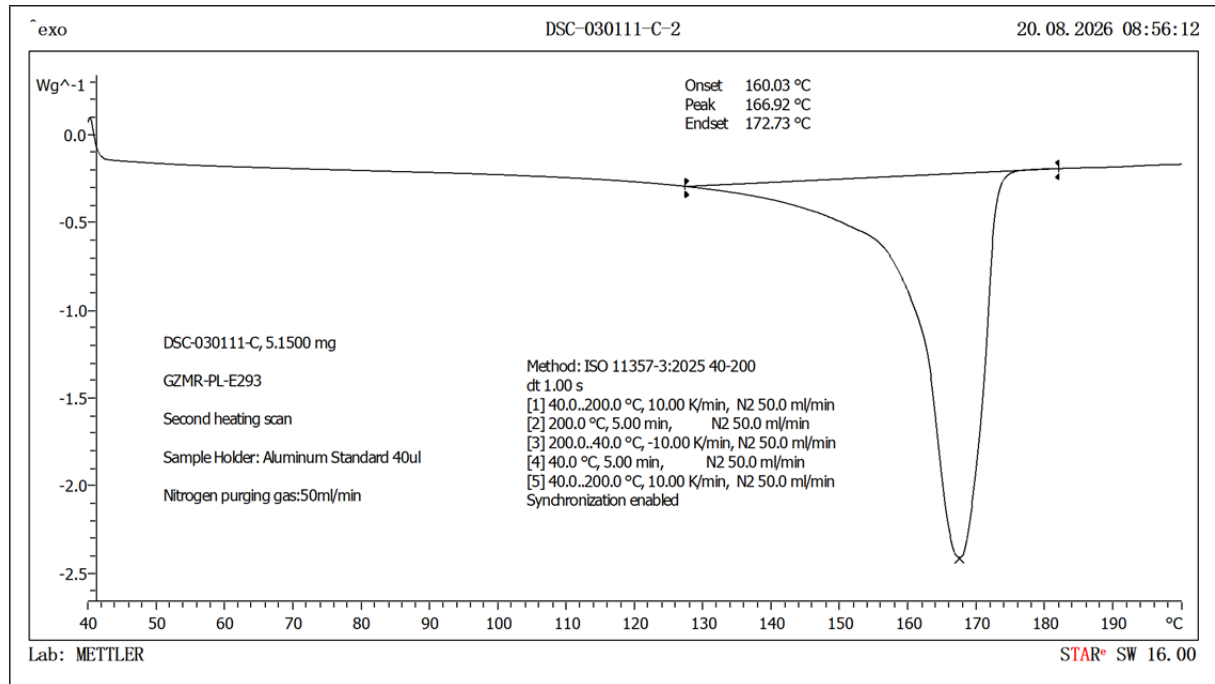
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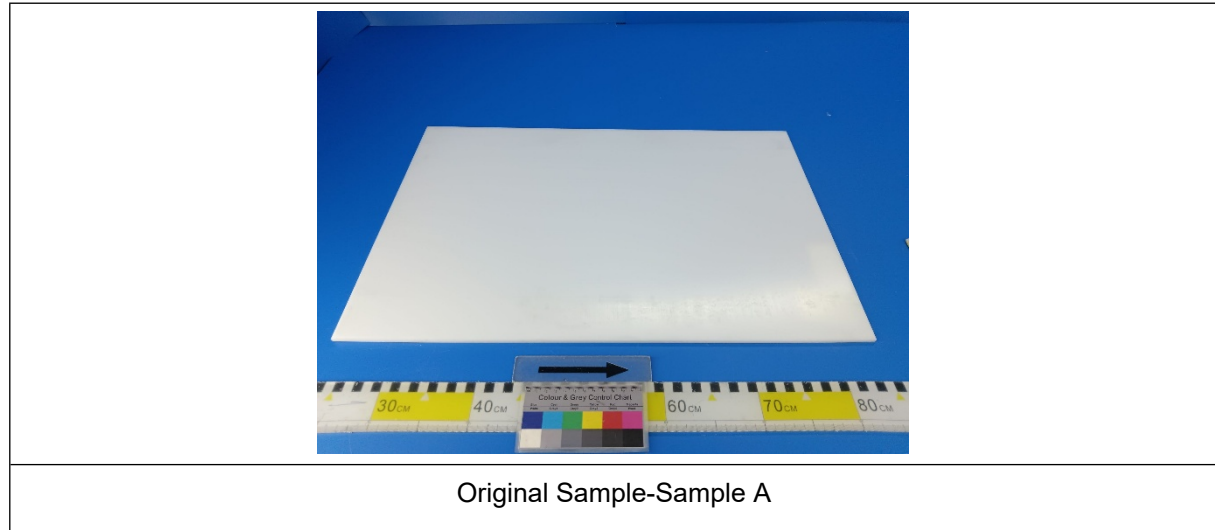
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Test Photo:



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Equipment Information:

Equipment Name	Model	Equipment No.	Calibration date	Next Calibration date
Differential Scanning Calorimeter	DSC2500	GZMR-MA-E001	2026-01-09	2028-01-08

15. Test Item: Thermal Conductivity (Transient Plane Heat Source Method)

Sample Description: A-Panel

Test Method: ISO 22007-2:2022

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

Test Result:

Sample A

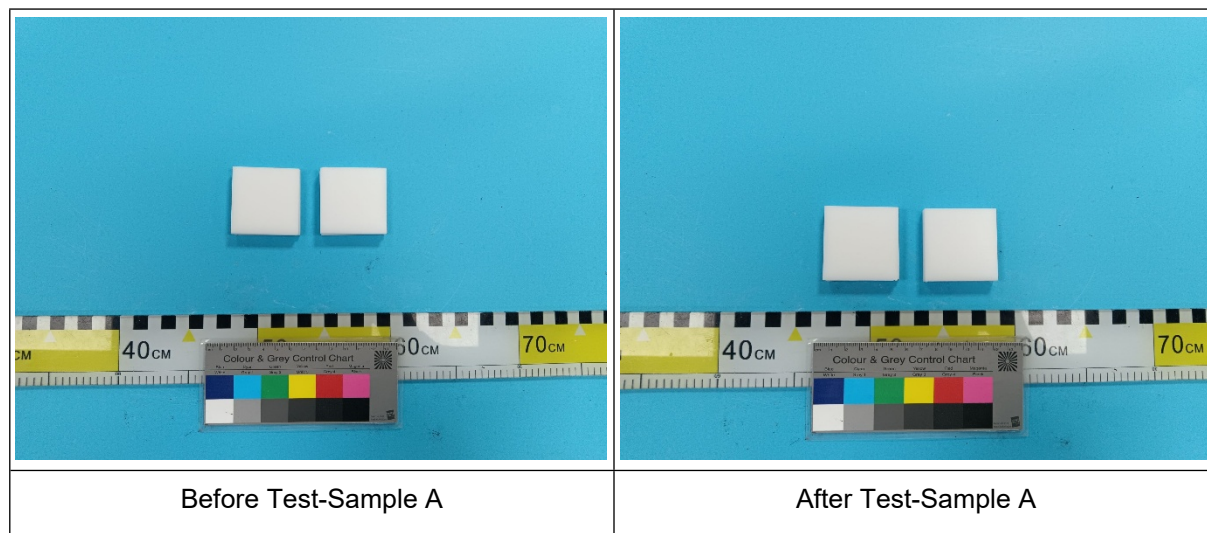
Test Duration:40 s

Probe Diameter:15 mm

Specimen Thickness: 11.54mm (2 layers piled up)

Test Item	Thermal Conductivity, W/(m·K)
Test Result	0.50

Test Photo:



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Equipment Information:

Equipment Name	Model	Equipment No.	Calibration date	Next Calibration date
Transient plane heat source (hot disc) method thermal conductivity meter	HS-DR-5	POL-522	2026-04-22	2027-04-21

16. Test Item: Relative Permittivity

Sample Description: A-Beige Plastic sheets

Test Method: ASTM D150-22

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

Test Result:

Sample A

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

Test Frequency:1 MHz

Test Electrode:Parallel electrode (Ø38 mm)

Specimen	Relative Permittivity	Dielectric Dissipation Factor
1	3.526	0.00700
2	3.435	0.00678
3	3.537	0.00718
Average	3.499	0.00699



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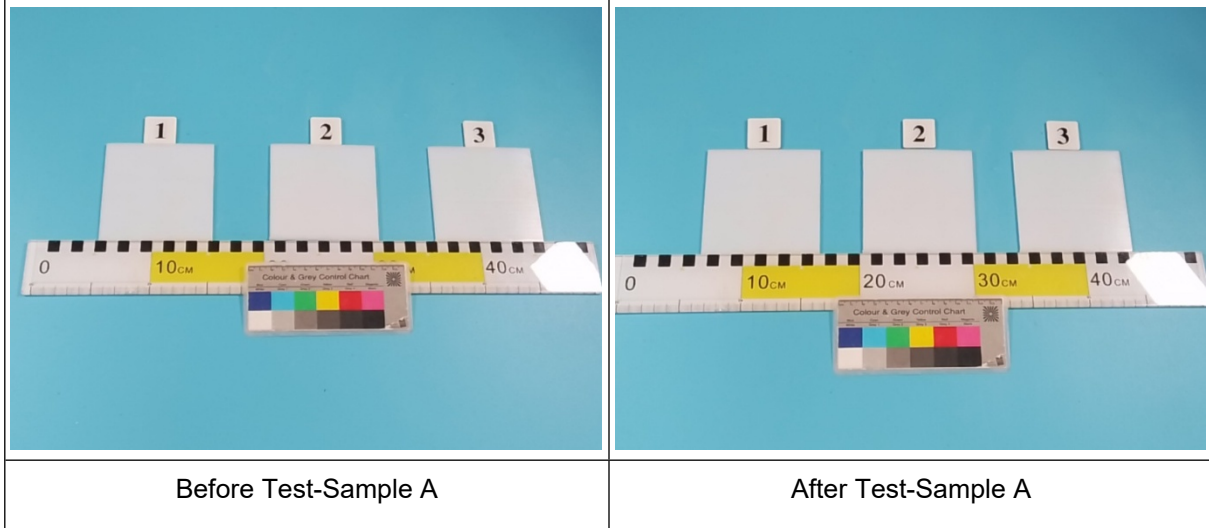
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Test Photo:



Equipment Information:

Equipment Name	Model	Equipment No.	Calibration date	Next Calibration date
LCR Tester	E4980AL	P-576	2025-09-12	2026-09-11
Dielectric Test Fixture	16451B	P-576-1	2025-10-14	2026-10-13
Digit Calliper	0-150mm/0.01mm	P-698	2026-02-02	2027-02-01

Appendix information:

1. The above test projects/methods were carried out by other laboratory in SGS group.
2. The test report shall only be used for clients' scientific research, teaching, internal quality control, product research and development, etc... and just for internal reference.

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



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