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检测
TESTING
CNAS L0167

TEST REPORT

No. : GZMR250400993701

Date : Apr 22, 2025

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CUSTOMER NAME: Foshan Electric Light Technology Co., Ltd.
ADDRESS: Liang Rongguang Factory No. A2, Xiaotang Xinjing Industrial Zone,
Shishan Town, Nanhai District, Foshan City

Sample Name : Insulated protective cover for live work

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. : NJIN2504000544PL01

Date of Receipt : Apr 08, 2025

Testing Start Date : Apr 08, 2025

Testing End Date : Apr 22, 2025

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

May Huo
Authorized signatory

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Summary of Results:

No.	Test Item	Test Method	Result	Conclusion
1	Effect of Liquid Chemical	GB/T 11547-2008	See result	/
2	Major Composition Qualitative Analysis	GB/T 6040-2019	Polycarbonate (PC)	/
3	Shore Hardness	GB/T 2411-2008	D/15:82	/
4	Tensile Test	GB/T 1040.2-2022	Tensile Strength: 63.6MPa Nominal Tensile Strain at Break: 80%	/
5	Charpy Impact Strength	GB/T 1043.1-2008	13kJ/m ² C (complete break)	/
6	Deflection Temperature under Load	GB/T 1634.2-2019	137°C	/
7	Dielectric Breakdown Voltage	GB/T 1408.1-2016	34.33kV	/
8	Volume Resistance & Volume Resistivity	GB/T 31838.2-2019	See result	/
9	Surface Resistance & Surface Resistivity	GB/T 31838.3-2019	See result	/
10	Light Ageing Test-Xenon- arc Exposure	GB/T 16422.2-2022 Cycle 1	No visual change	/
11	Appearance of Granules	SH/T 1541.1-2019	See result	/
12	Glowing-Wire Flammability Test (GWEPT)	GB/T 5169.11-2017	GWEPT: 750	/

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



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1. Test Item: Effect of Liquid Chemical

Sample Description: A-Particle

Test Method: GB/T 11547-2008

Test Condition:

Immersion Condition 1: 5% H_2SO_4 (m/m), 23°C, 168h→Rinse and wipe dry

Immersion Condition 2: 5%NaOH(m/m), 23°C, 168h→Rinse and wipe dry

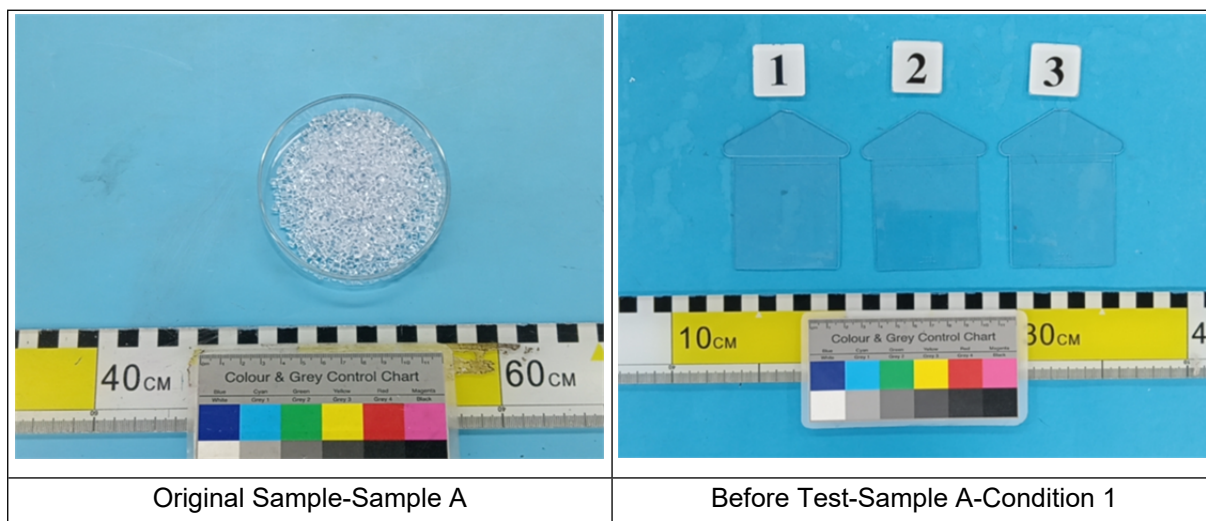
Lab Environmental Condition: (23 ± 2) °C, (50 ± 5) %RH

Test Result:

Test Item	Test Result	
Effect of Liquid Chemical	Condition 1	No visual change
	Condition 2	No visual change

Note: Test specimens were injection molded.

Test Photo:



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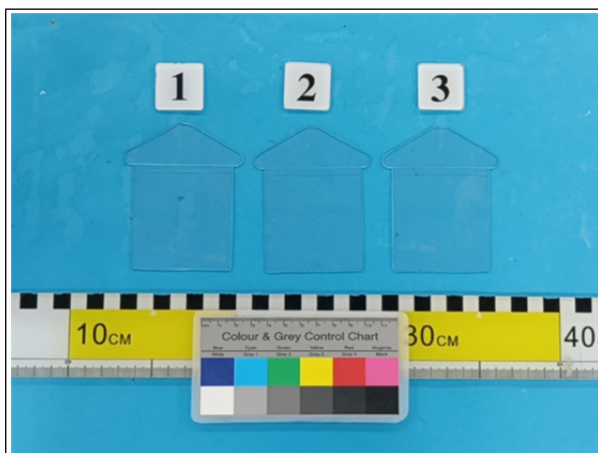
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TEST REPORT

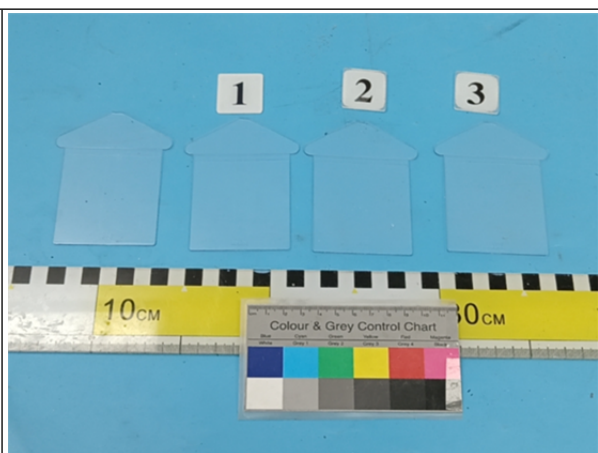
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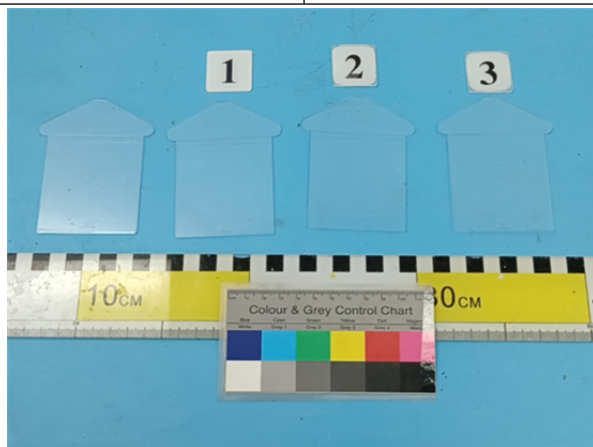


Before Test-Sample A-Condition 2



Reference sample

After Test-Sample A- Condition 1



Reference sample After Test-Sample A- Condition 2



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2. Test Item: Major Composition Qualitative Analysis

Sample Description: A-Particle

Test Method: GB/T 6040-2019

Test Condition:

Sample Technique: ATR

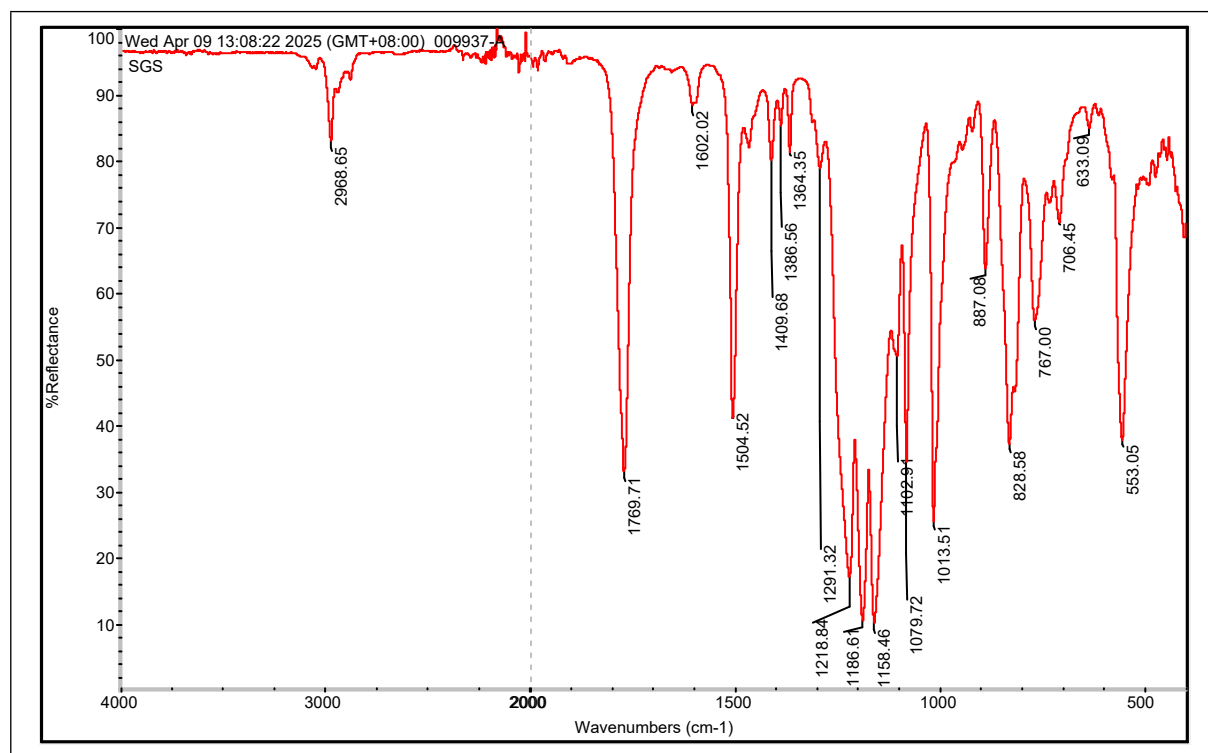
Test Result:

Sample A

Test Item	Test Result
Major Composition	Polycarbonate (PC)

Appendix

Sample A



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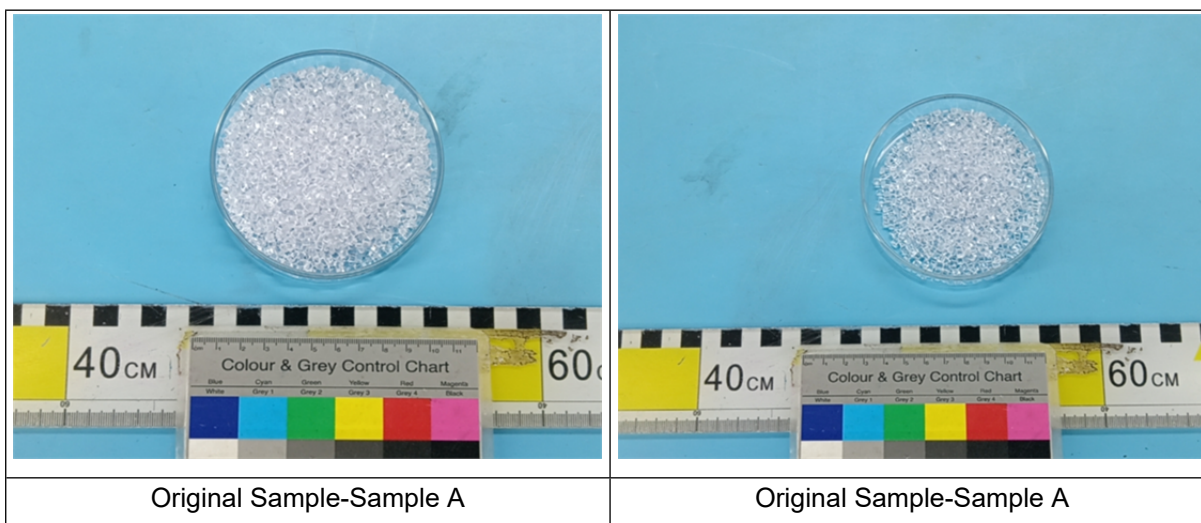
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Test Photo:



Equipment Information:

Equipment Name	Model	Equipment No.	Calibration date	Next Calibration date
Fourier Transform Infrared Spectrometry	Nicolet iS50	GZMR-PL-E216	2024-10-11	2025-10-10



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3. Test Item: Shore Hardness

Sample Description: A-Particle

Test Method: GB/T 2411-2008

Test Condition:

Specimen Thickness: 4.22 mm

Type of durometer: Shore D

Read Time: 15 s

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

Test Result:

Sample A

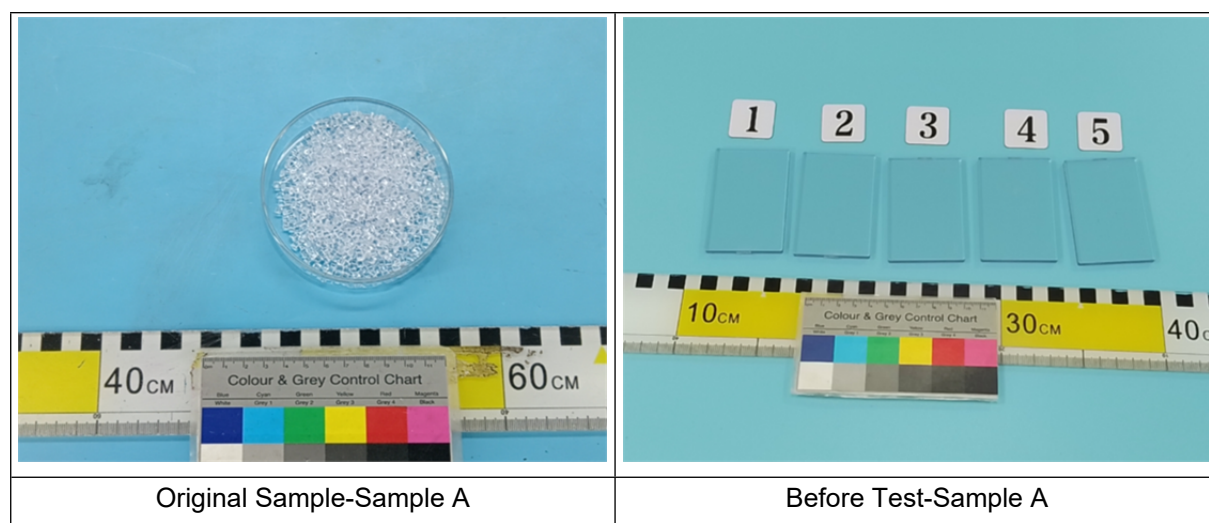
Test Item	Test Result
Shore Hardness	D/15:82

Note:

1. D/15:X Indicates that A is the type of durometer;15 s is the reading time; X is the hardness value.

2. Test specimens were injection molded.

Test Photo:



Original Sample-Sample A

Before Test-Sample A



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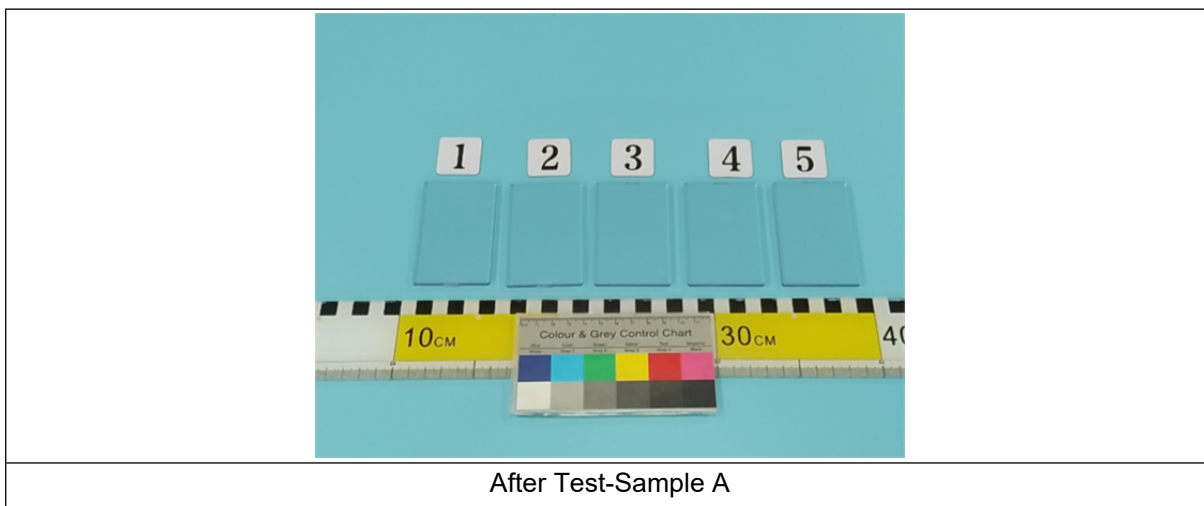
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Equipment Information:

Equipment Name	Model	Equipment No.	Calibration date	Next Calibration date
Multifunction hardness	Digitest II	GZMR-PL-E156	2024-04-25	2025-04-24



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4. Test Item: Tensile Test

Sample Description: A-Particle

Test Method: GB/T 1040.2-2022

Test Condition:

Specimen Type: Type 1A

Specimen Thickness: 4.04 mm

Testing Speed: 50 mm/min

Gauge Length: 75 mm

Initial Distance between Grips: 115 mm

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

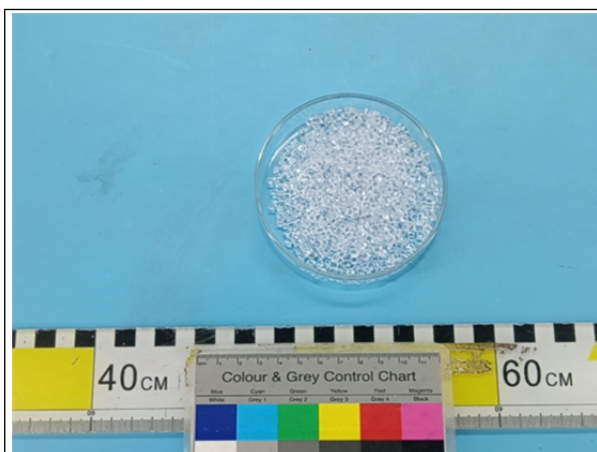
Test Result:

Sample A

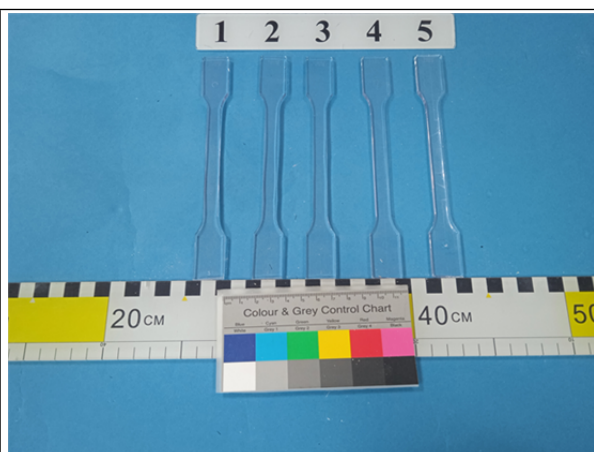
Test Item	Test Result
Tensile Strength	63.6MPa
Nominal Tensile Strain at Break	80%

Note: Test specimens were injection molded.

Test Photo:



Original Sample-Sample A



Before Test-Sample A



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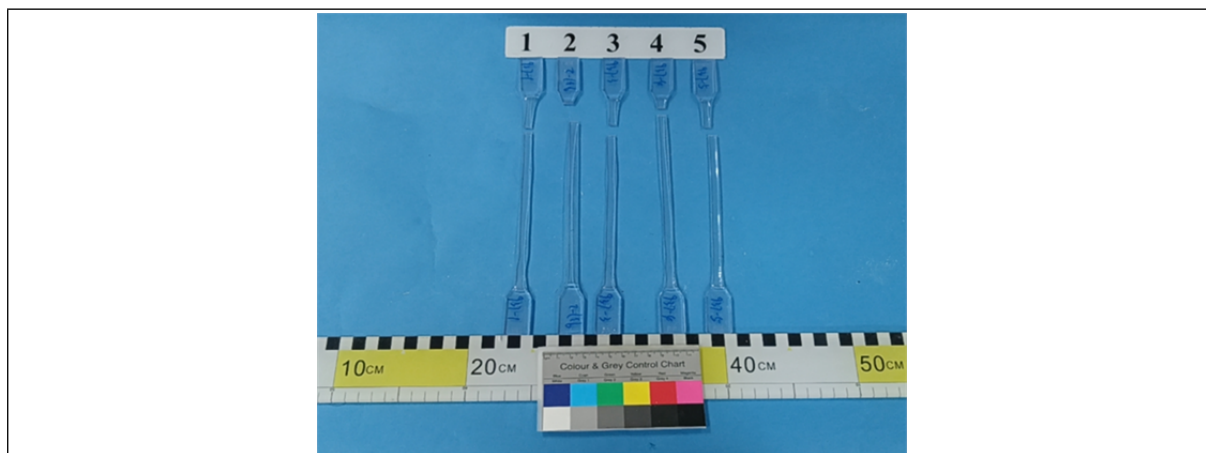
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After Test-Sample A

Equipment Information:

Equipment Name	Model	Equipment No.	Calibration date	Next Calibration date
Automation Universal Testing Machine	Z020	GZMR-PL-E399	2025-03-20	2026-03-19



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5. Test Item: Charpy Impact Strength

Sample Description: A-Particle

Test Method: GB/T 1043.1-2008

Test Condition:

Specimen Type: GB/T 1043.1/1eA (Notch preparation: machining)

Specimen Thickness: 4.03 mm

The Capacity of the Pendulum: 2J

Impact Speed: 2.9m/s

Span: 62 mm

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

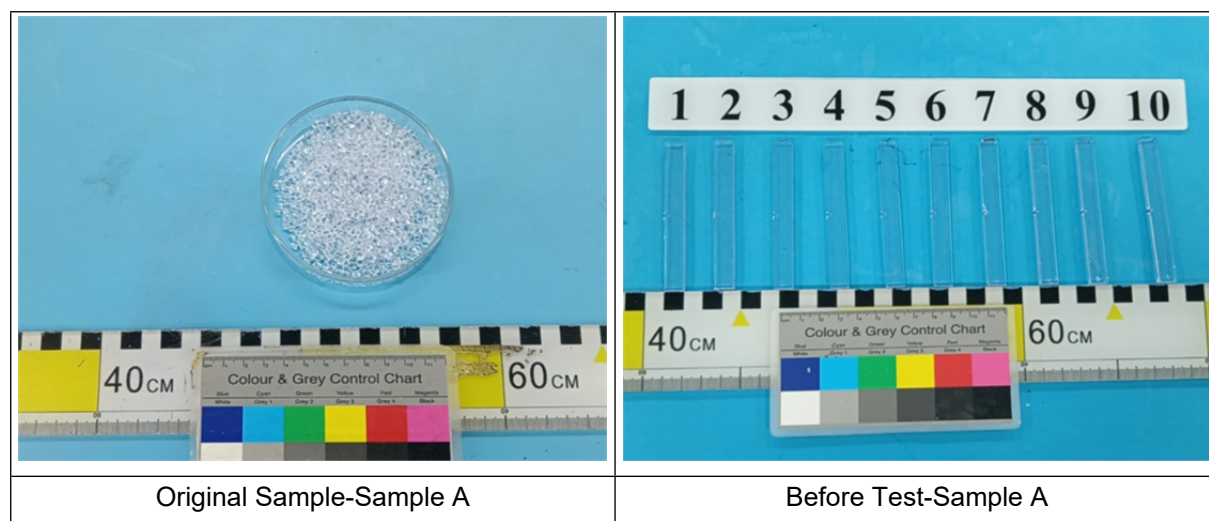
Test Result:

Sample A

Test Item	Test Result
Charpy Notched Impact Strength	13kJ/m ² C (complete break)

Note: Test specimens were injection molded.

Test Photo:



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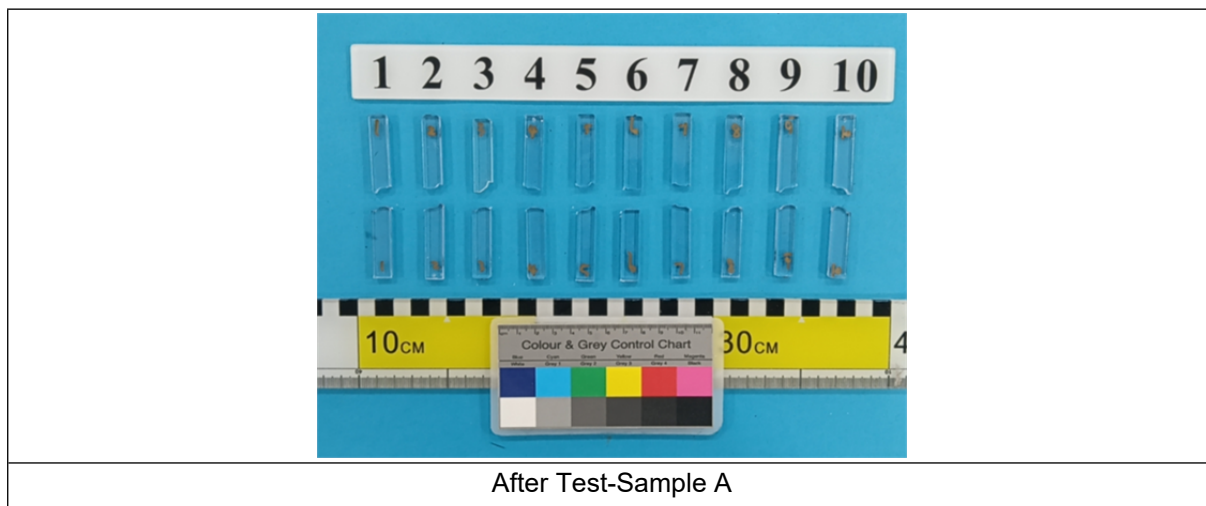
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Equipment Information:

Equipment Name	Model	Equipment No.	Calibration date	Next Calibration date
Impact Tester	HIT50P	GZMR-PL-E283	2025-03-20	2026-03-19



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6. Test Item: Deflection Temperature under Load

Sample Description: A-Particle

Test Method: GB/T 1634.2-2019

Test Condition:

Test Method: B

T₀ 45

Specimen: 80 mm x 9.99 mm x 4.02 mm

Heat-Transfer Media: Silicone oil

Rate of Temperature: 120 °C/h

Span: 64 mm

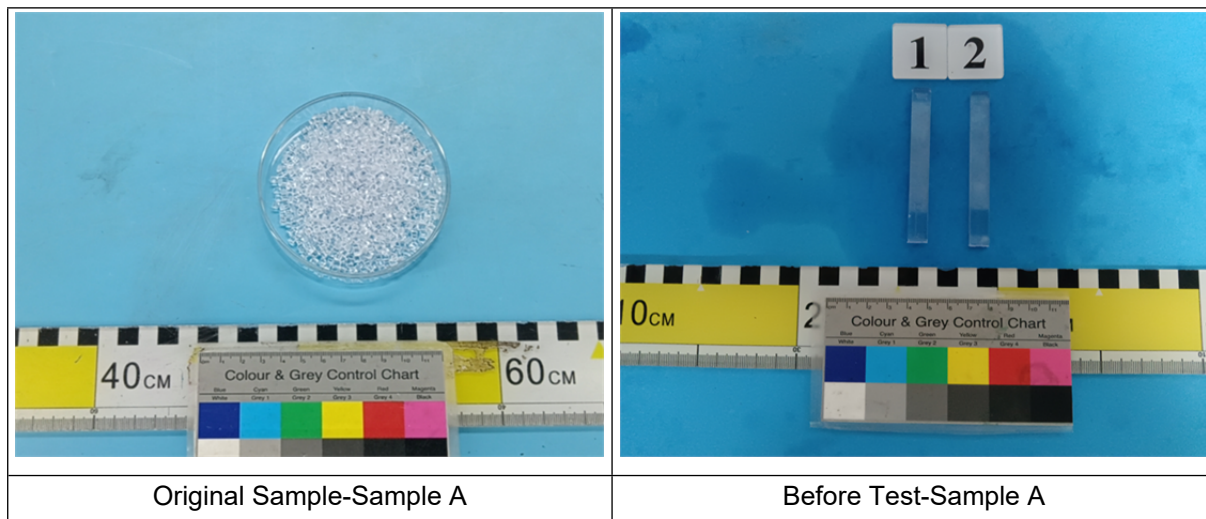
Test Result:

Sample A

Test Item	Test Result
Deflection Temperature under Load	137°C

Note: Test specimens were injection molded.

Test Photo:



Original Sample-Sample A

Before Test-Sample A



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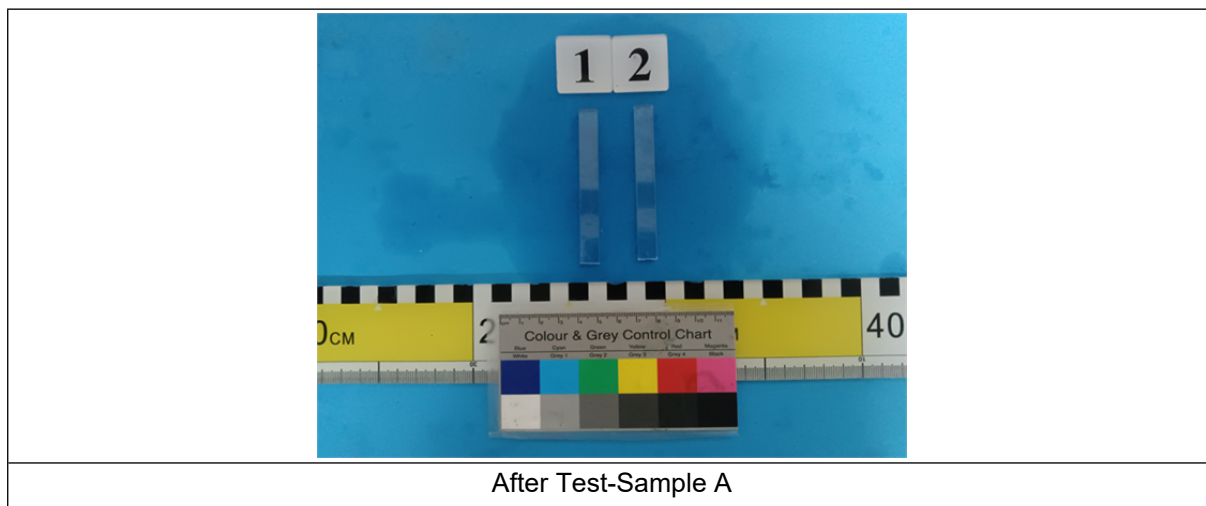
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Equipment Information:

Equipment Name	Model	Equipment No.	Calibration date	Next Calibration date
HDT and VICAT Tester	6970.000	GZMR-PL-E091	2025-03-19	2026-03-18



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7. Test Item: Dielectric Breakdown Voltage

Sample Description: A-Particle

Test Method: GB/T 1408.1-2016

Test Condition:

Precondition: $(23 \pm 2) ^\circ\text{C}$, $(50 \pm 5) \% \text{RH}$, 24 h

Surround Medium: Transformer oil at $(23 \pm 2) ^\circ\text{C}$

Test Electrode: Equal electrodes (upper and lower electrodes $\phi 25 \text{ mm}$)

Voltage Type: AC 50 Hz

Mode of Increase of Voltage: Rapid-rise, 2000V/s

Lab Environmental Condition: $(23 \pm 2) ^\circ\text{C}$, $(50 \pm 5) \% \text{RH}$

Test Result:

Sample A

Specimen	Thickness, mm	Dielectric Breakdown Voltage, kV
1	1.06	32.96
2	1.06	34.55
3	1.07	35.54
4	1.06	34.33
5	1.05	32.96
Median	/	34.33

Note: Test specimens were injection molded.



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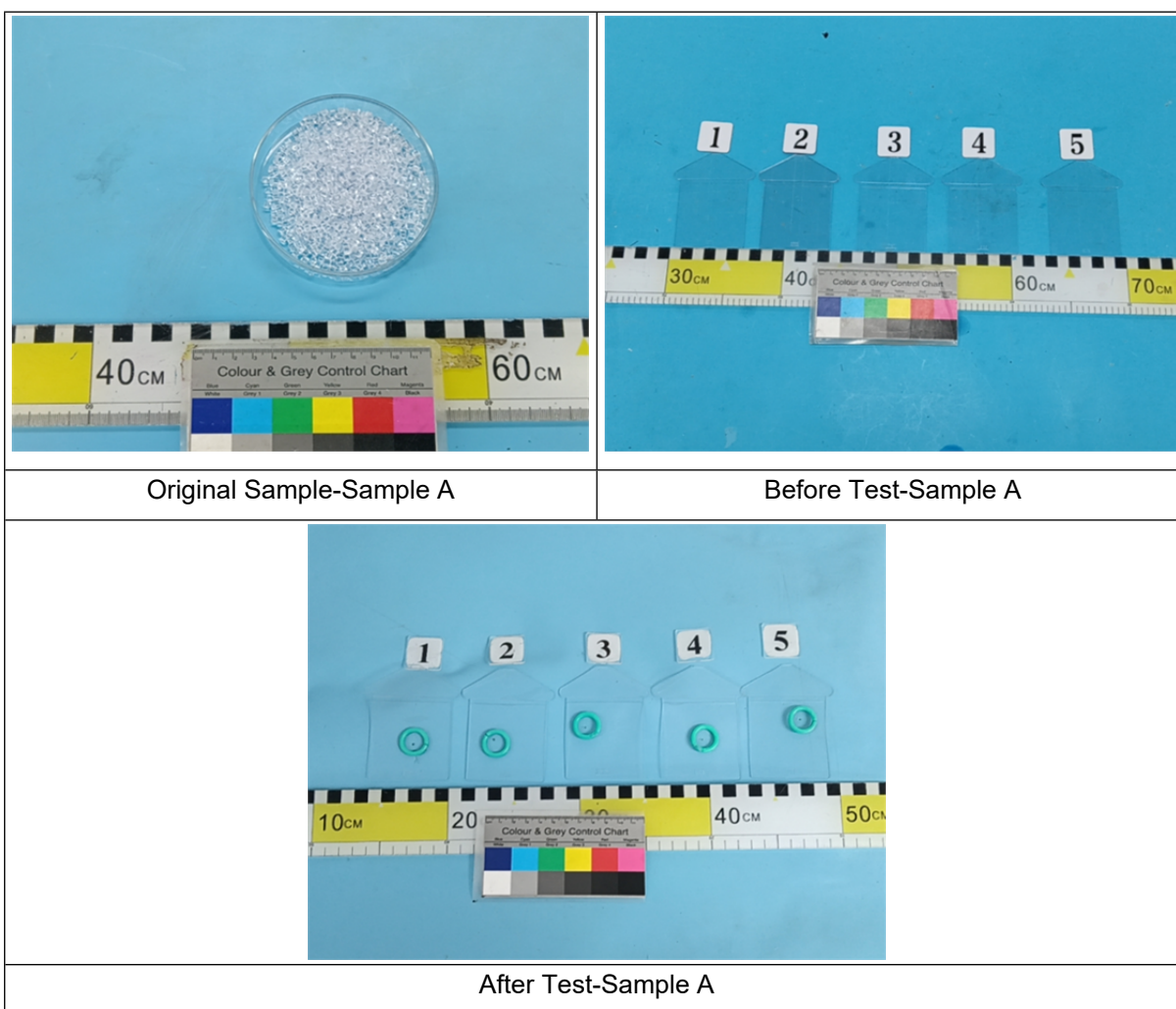
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Test Photo:



Equipment Information:



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Equipment Name	Model	Equipment No.	Calibration date	Next Calibration date
Dielectric Breakdown Voltage Tester	DJC-100KV	GZMR-PL-E154-01	2024-05-30	2025-05-29
Digital Micrometer	MDC-25MX	GZMR-PL-E048-08	2025-04-03	2026-04-02

8. Test Item: Volume Resistance & Volume Resistivity

Sample Description: A-Particle

Test Method: GB/T 31838.2-2019

Test Condition:

Precondition: $(23 \pm 2) ^\circ \text{C}$, $(50 \pm 5) \% \text{RH}$, 96 hTest Electrode: $D_1=50 \text{ mm}$, $D_2=70 \text{ mm}$

Test Voltage: 1000 Vdc

Test Duration: 1 min

Lab Environmental Condition: $(23 \pm 2) ^\circ \text{C}$, $(50 \pm 5) \% \text{RH}$

Test Result:

Sample A

Specimen	Thickness, mm	Volume Resistance, Ω	Volume Resistivity, $\Omega \cdot \text{m}$
1	2.02	5.65E+14	7.90E+14
2	2.02	2.19E+14	3.06E+14
3	1.99	2.71E+14	3.85E+14
4	1.99	7.49E+14	1.06E+15
5	2.02	2.67E+14	3.74E+14
Median	/	2.71E+14	3.85E+14

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1. Test specimens were injection molded.
2. E+n refers to 10ⁿ, for example, 1.00E+03 is equivalent to 1.00×10³.



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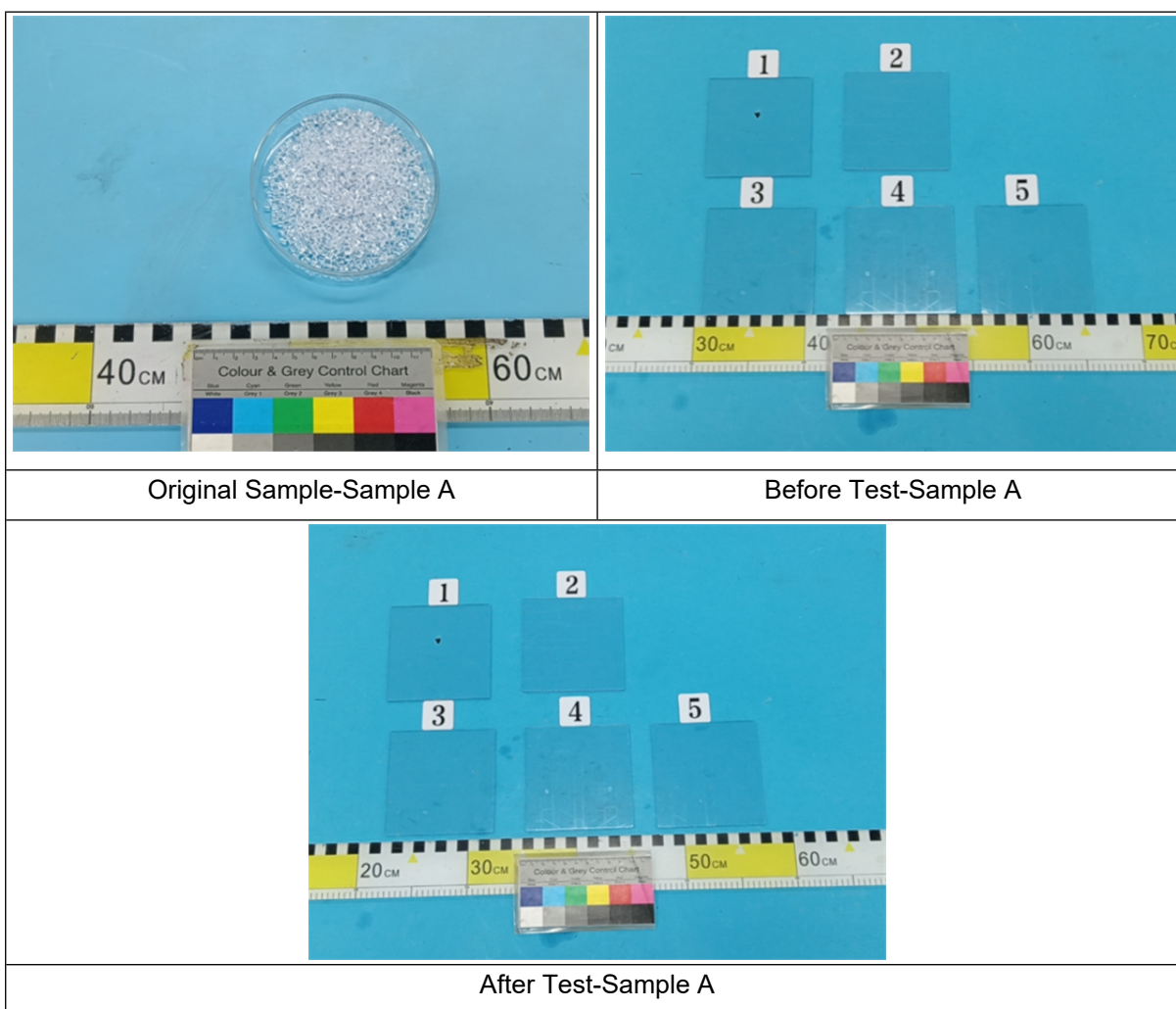
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Test Photo:



Equipment Information:



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Equipment Name	Model	Equipment No.	Calibration date	Next Calibration date
High Resistance Meter	4339B	GZMR-PL-E150	2025-03-19	2026-03-18
Digital Micrometer	MDC-25MX	GZMR-PL-E048-08	2025-04-03	2026-04-02

9. Test Item: Surface Resistance & Surface Resistivity

Sample Description: A-Particle

Test Method: GB/T 31838.3-2019

Test Condition:

Precondition: $(23 \pm 2) ^\circ \text{C}$, $(50 \pm 5) \% \text{RH}$, 96 h

Test Electrode: D1=50 mm, D2=70 mm

Test Voltage: 500Vdc

Time Duration: 1 min

Lab Environmental Condition: $(23 \pm 2) ^\circ \text{C}$, $(50 \pm 5) \% \text{RH}$

Test Result:

Sample A

Specimen	Surface Resistance, Ω	Surface Resistivity, Ω/sq
1	5.48E+15	1.03E+17
2	1.42E+15	2.68E+16
3	1.09E+15	2.05E+16
4	1.36E+15	2.56E+16
5	1.46E+15	2.75E+16
Median	1.42E+15	2.68E+16

Note:



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1. Test specimens were injection molded.
2. E+n refers to 10^n , for example, 1.00E+03 is equivalent to 1.00×10^3 .



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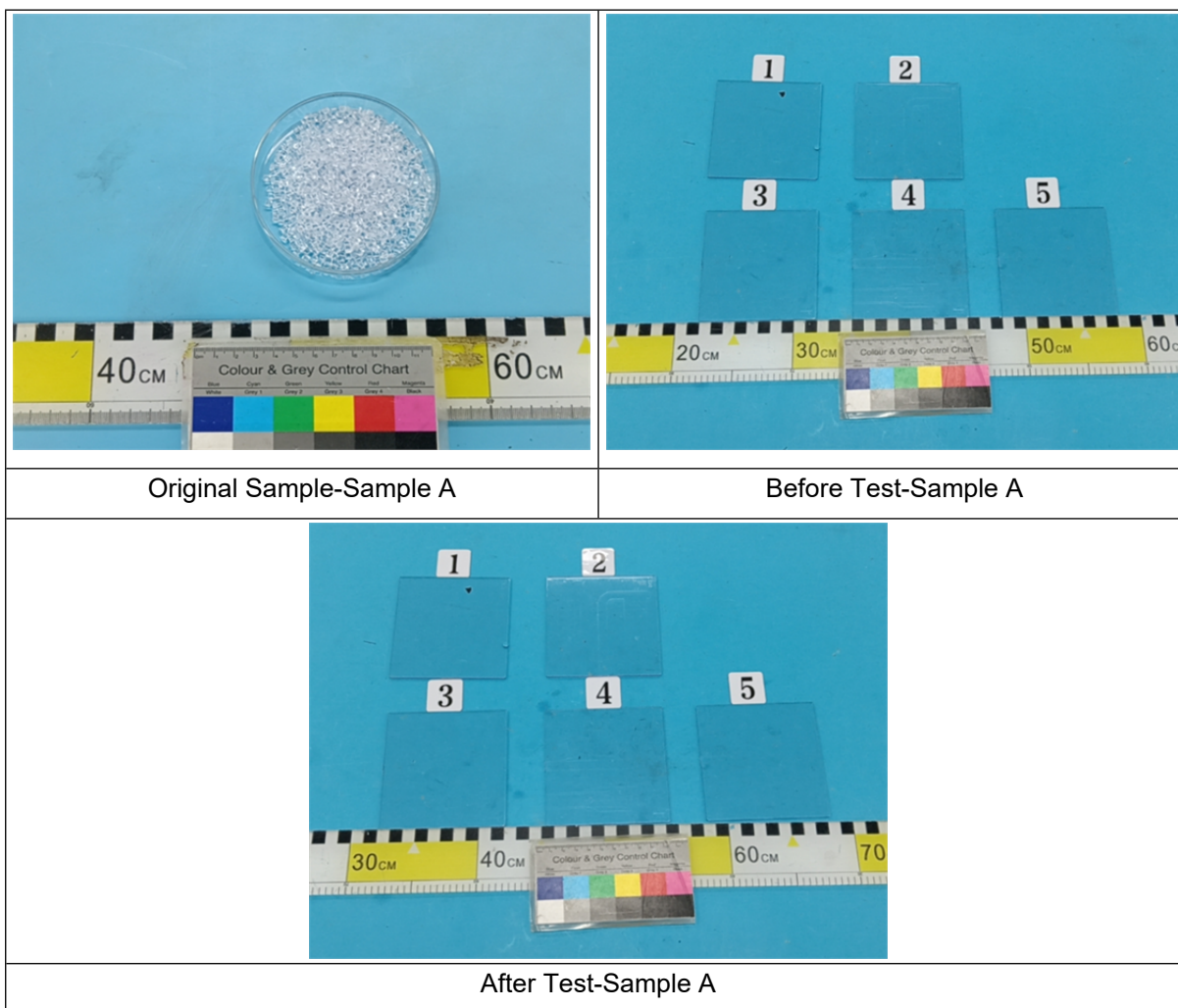
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Test Photo:



Original Sample-Sample A

Before Test-Sample A

After Test-Sample A

Equipment Information:

Equipment Name	Model	Equipment No.	Calibration date	Next Calibration date
High Resistance Meter	4339B	GZMR-PL-E150	2025-03-19	2026-03-18



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10. Test Item: Light Ageing Test-Xenon-arc Exposure

Sample Description: A-Particle

Test Method: GB/T 16422.2-2022 Cycle 1

Test Condition:

Exposure Cycle:

Irradiance: $(0.51 \pm 0.02) \text{ W/(m}^2 \cdot \text{nm)}$ @340nm

102 min light at $(65 \pm 3)^\circ\text{C}$ BST, $(38 \pm 3)^\circ\text{C}$ CT, $(50 \pm 10)\%\text{RH}$

18 min light and water spray

Filter: Boro/Boro

Exposure Duration: 168h

Lab Environmental Condition: $(23 \pm 2)^\circ\text{C}$, $(50 \pm 5)\%\text{RH}$

Test Result:

Sample A

Test Item	Appearance
Light Ageing Test-Xenon-arc Exposure	No visual change

Note: Test specimens were injection molded.



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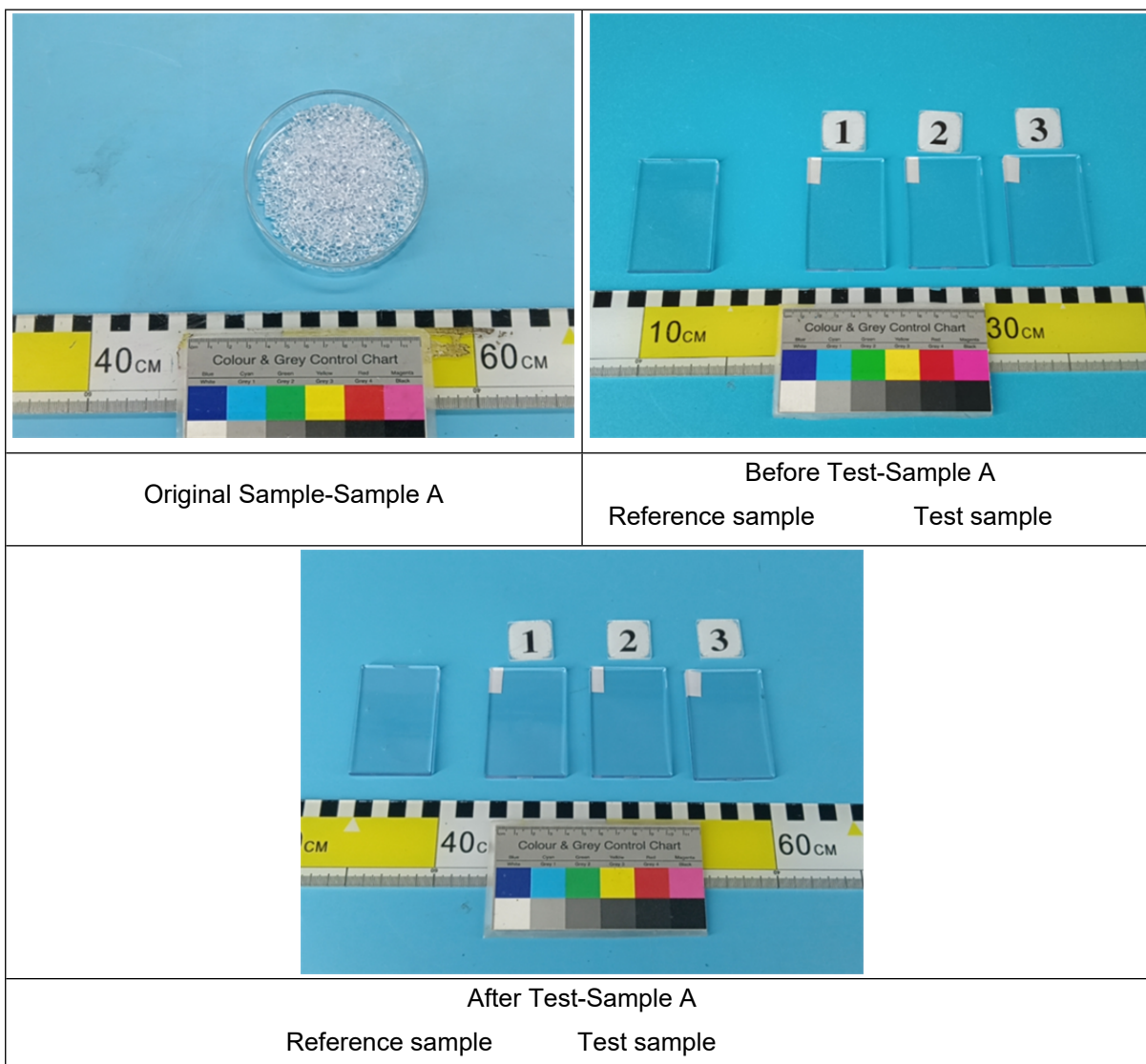
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Test Photo:



Equipment Information:

Equipment Name	Model	Equipment No.	Calibration date	Next Calibration date
Xenon Weathering Tester	Ci5000	GZMR-AG-E169	2024-05-21	2025-05-20



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11. Test Item: Appearance of Granules

Sample Description: A-Particle

Test Method: SH/T 1541.1-2019

Test Condition:

Test with type A and type B sieves

Total mass of specimen: 1000g

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

Test Result:

Sample A

Test Item	Test Result
Black Granules	0 pieces/kg
Color Granules	0 pieces/kg
Snake Skin Granules	0 pieces/kg
Granules with Burr	0 pieces/kg
Black spot Granules	0 pieces/kg
Impurity	0 pieces/kg
Granules with Bubble	198 pieces/kg
Big Granules	0g/kg
Small Granules	0g/kg
Flocculent	0g/kg



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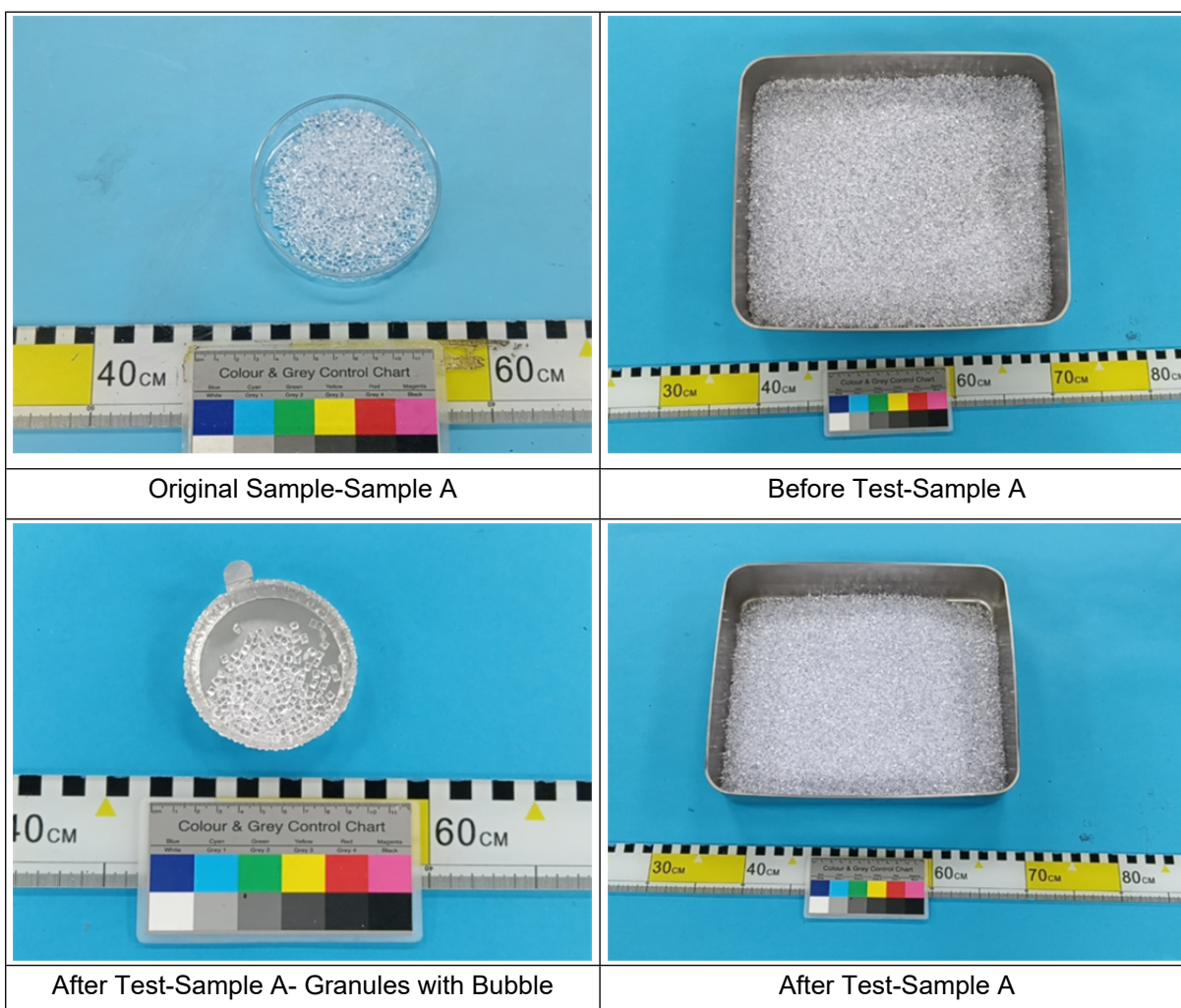
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Test Photo:



Equipment Information:

Equipment Name	Model	Equipment No.	Calibration date	Next Calibration date
Electron Balance	JJ8000A	GZMR-PL-E079	2025-03-19	2026-03-18



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12. Test Item: Glowing-Wire Flammability Test (GWEPT)

Sample Description: A-Particle

Test Method: GB/T 5169.11-2017

Test Condition:

Precondition: $(23 \pm 2) ^\circ\text{C}$, $(50 \pm 5) \% \text{RH}$, 24 h

During the time of application of the glow-wire t_A : 30s

Lab Environmental Condition: $(23 \pm 2) ^\circ\text{C}$, $(50 \pm 5) \% \text{RH}$

Test Result:

Sample A

Specimen No.	Test Temp. ($^\circ\text{C}$)	t_E (s)	Result evaluation		
			Whether the specimen is ignition	Whether the specimen is totally burned	Whether the specified layer is ignition
1	750	0.0	No	No	No
GWEPT: 750					

Note:

- t_E - The duration from the beginning of tip application up to the time when all flames extinguish, during or after the period of application.
- The test specimen is considered to have passed the GWEPT test if the following criteria have been met:
 - There is no ignition, or
 - All of the following situations apply when ignition has occurred:
 - If flames or glowing combustion of the test specimen extinguish within 30 s after removal of the glow-wire, i.e. $t_E \leq t_A + 30$ s; and
 - The specified layer placed underneath the test specimen does not ignite.
- Test specimens were injection moulded.



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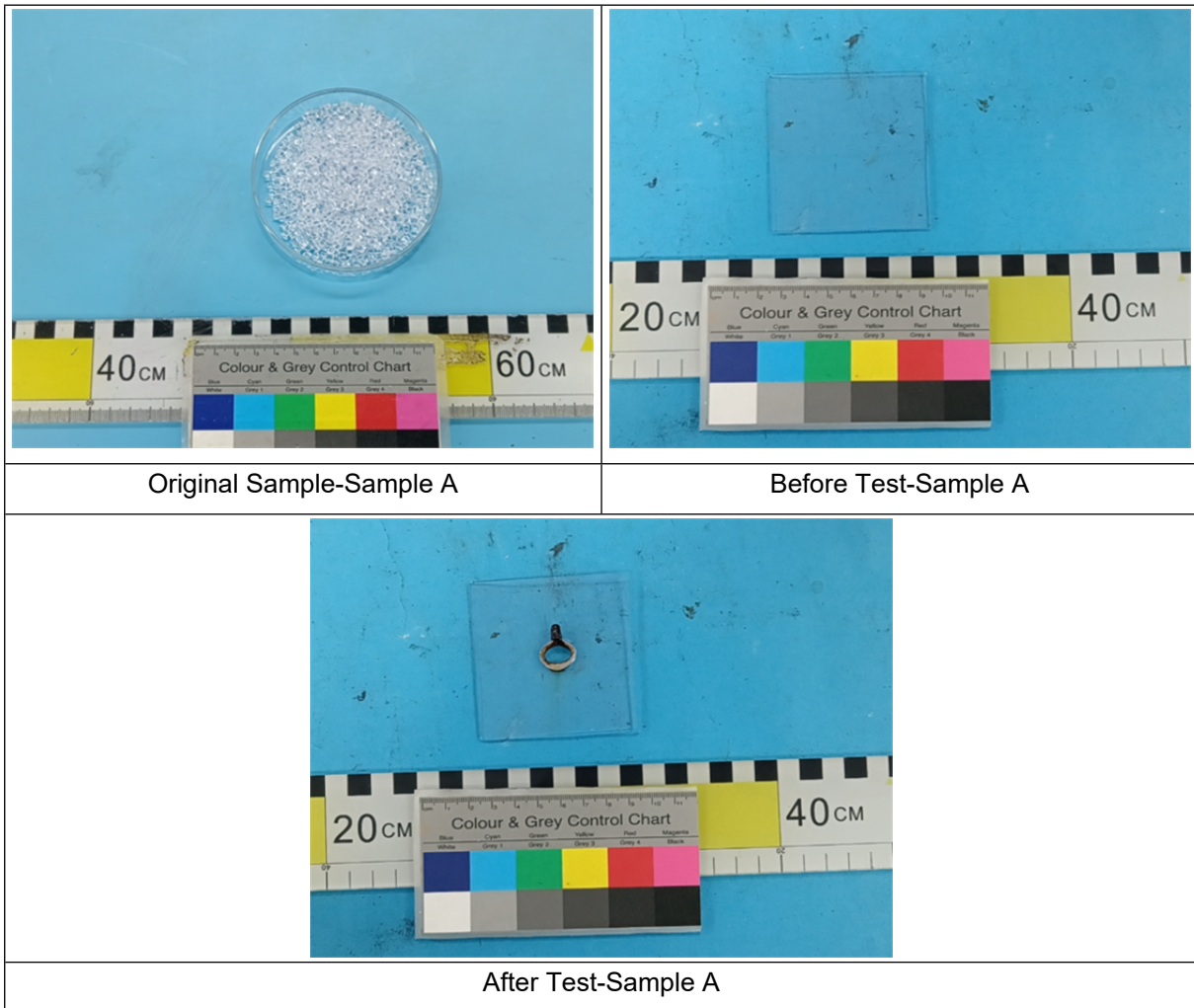
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Test Photo:



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Equipment Information:

Equipment Name	Model	Equipment No.	Calibration date	Next Calibration date
Glow Wire Tester	ZLT—GTR	GZMR-PL-E407	2024-07-11	2025-07-10

*The current test report is the English version of report number GZMR250400993701_CN. In case of any discrepancy between Chinese version and English version, the Chinese version shall prevail.

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