

TEST REPORT

No. : GZMR231103530301-1
Date : Dec 27, 2023
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CUSTOMER NAME: Dongguan Dongquan Mould Material Co., Ltd.
ADDRESS: No.10 Yihuan Road,Chiling Industrial,Dongguan City,Guangdong Province,China

Sample Name : Polyurethane Tooling Board DQ473
Part No : DQ473
Material and Mark : DQ473
Manufacturer : Dongguan Dongquan Mould Material Co., Ltd.
Manufacturer Address : Room105, No.10 Yihuan Road,Chiling Industrial,Dongguan City,Guangdong Province,China
Sample Source : Sent by client
Other Information : Supplier: Dongguan Dongquan Mould Material Co., Ltd.

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. : GZAT2311016715NM
Date of Receipt : Nov 29, 2023
Testing Start Date : Nov 29, 2023
Testing End Date : Dec 27, 2023
Test Result(s) : For further details, please refer to the following page(s)

Signed for
SGS-CSTC Standards Technical
Services Co., Ltd. Guangzhou Branch

Doris Yin
Authorized signatory



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Report Declaration:

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.

Manufacture Declaration or Comment:

None

Summary of Result(s):

No.	Test Item	Test Method	Test Result	Conclusion	
1.	Apparent Density	ISO 845:2006 and client's requirement	835.4kg/m ³	N/A	
2.	Shore Hardness	ISO 868:2003	D/15:74	N/A	
3.	Mean Coefficient of Linear Thermal Expansion	ISO 11359-2:2021 Method A	44×10 ⁻⁶ K ⁻¹	N/A	
4.	Deflection Temperature under Load	ISO 75-2:2013 Method B	80°C	N/A	
5.	Flexural Test	ISO 178:2019 Method A	Flexural Strength	39.7MPa	N/A
			Flexural Modulus	2620MPa	
6.	Compressive Stress at Yield	ISO 604:2002	47.9MPa	N/A	
7.	Charpy Unnotched Impact Strength	ISO 179-1:2023	6.25kJ/m ² C (complete break)	N/A	

Note: Pass: Meet the requirements;
 Fail: Does not meet the requirements;
 N/A: Not apply to the judgment or Not applicable



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1. Test Item: Apparent Density

Sample Description: Plastic part

Test Method: ISO 845:2006 and client's requirement

Test Condition:

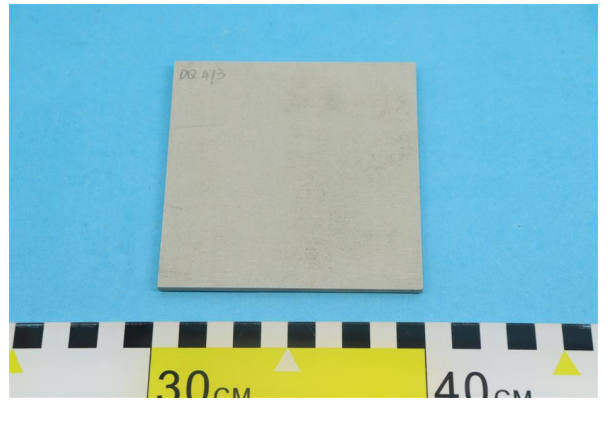
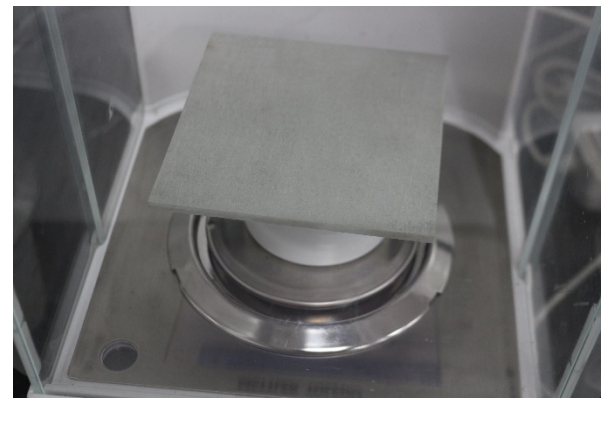
Specimen: 99mm×99mm×4.05mm

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

Test Result:

Test Item	Test Result
Apparent Density	835.4kg/m ³

Test Photo:

	
Original sample A	During Test

Equipment Information:

Equipment	Model	Equipment No.	Calibration date	Next Calibration date
Electron Balance	XPE404S	GZMR-PL-E004-07	2023-08-11	2024-08-10
Digital Vernier Caliper	CD-20AX	GZMR-PL-E041-17	2023-01-17	2024-01-16



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2. Test Item: Shore Hardness

Sample Description: Plastic part

Test Method: ISO 868:2003

Test Condition:

Specimen thickness: 4.18mm

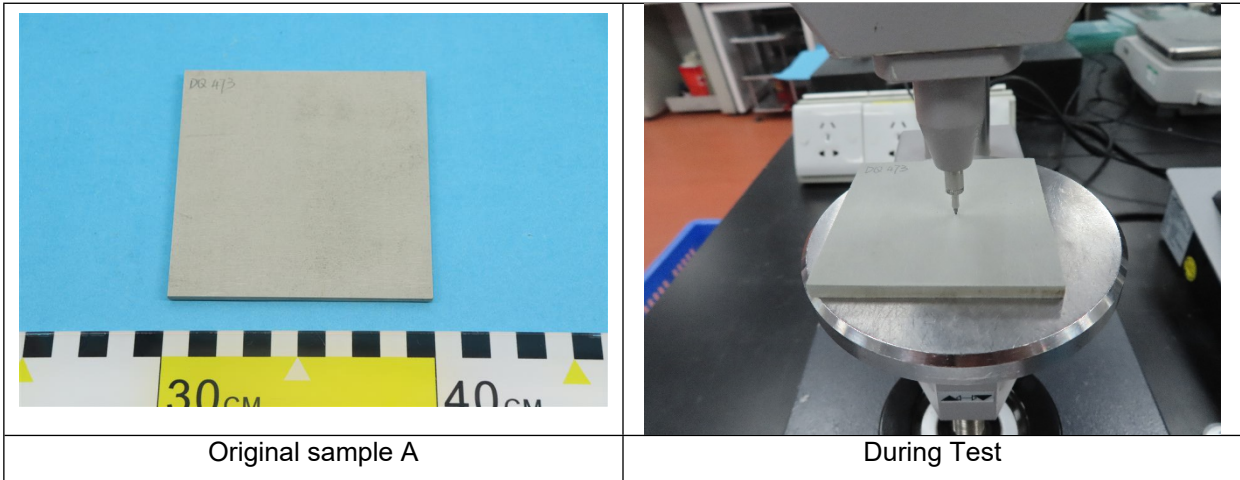
Lab Environmental Condition: (23±2)°C, (50±5)%RH

Test Result:

Test Item	Test Result
Shore Hardness	D/15:74

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

Test Photo:



Equipment Information:

Equipment	Model	Equipment No.	Calibration date	Next Calibration date
Multifunction Hardness Tester	Digitest II	GZMR-PL-E156	2023-05-05	2024-05-04



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3.Test Item: Mean Coefficient of Linear Thermal Expansion

Sample Description: Plastic part

Test Method: ISO 11359-2:2021 Method A

Test Condition:

Specimen: 9.83mm×6.48mm×4.14mm

Rate of temperature: 5 °C/min

Load: 50mN

Flow rate(N₂): 50 ml/min

Test temperature:0°C~50 °C

Test mode: Compression

Test direction: Length

Number of specimens tested: 3

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

Test Result:

Test Item	Test Result
Mean Coefficient of Linear Thermal Expansion	44×10 ⁻⁶ K ⁻¹



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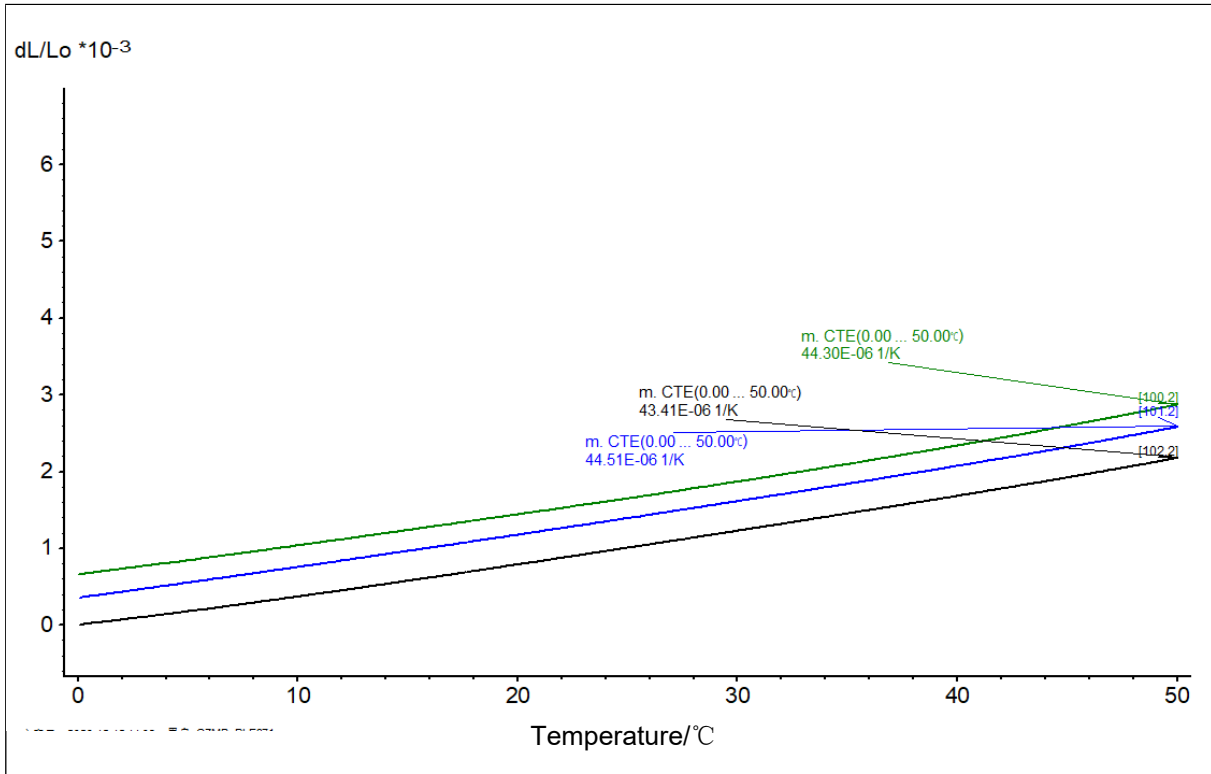
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Curve:



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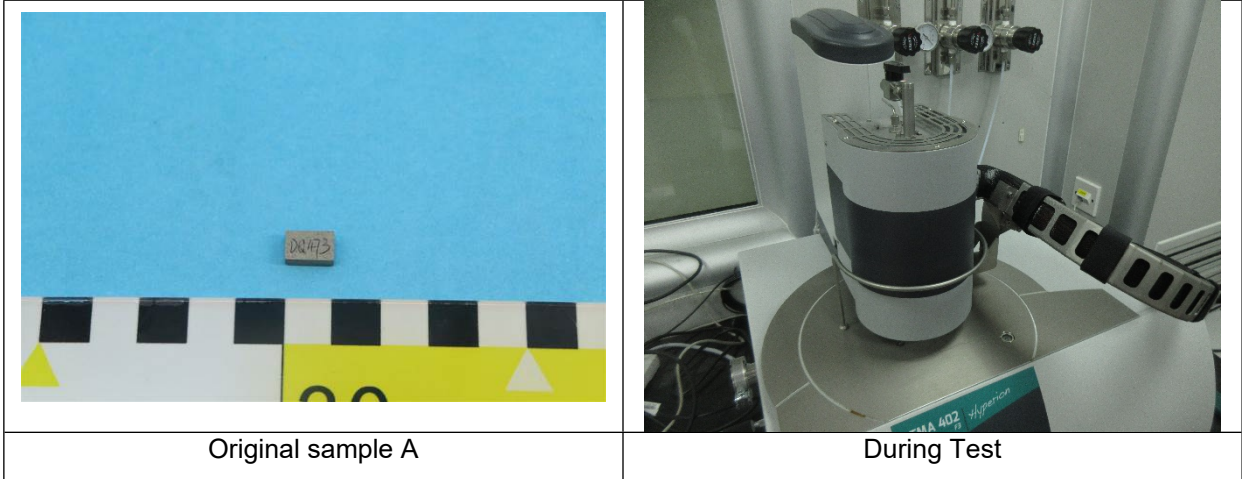
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Test Photo:



Equipment Information:

Equipment	Model	Equipment No.	Calibration date	Next Calibration date
Thermo Mechanical Analyzer	TMA402F3	GZMR-PL-E371	2023-06-06	2024-06-05



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4. Test Item: Deflection Temperature under Load

Sample Description: Plastic part

Test Method: ISO 75-2:2013 Method B

Test Condition:

Specimen: 80mm×10.52mm×4.11mm

Heat-transfer media: Silicone oil

T_f0.45

Rate of temperature:120°C/h

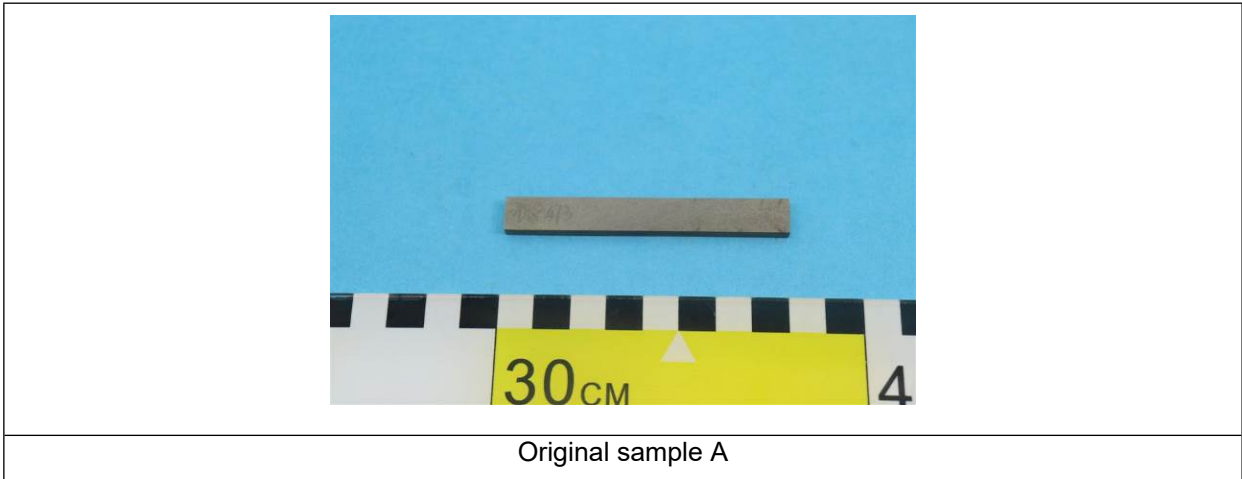
Span: 64mm

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

Test Result:

Test Item	Test Result
Deflection Temperature under Load	80°C

Test Photo:



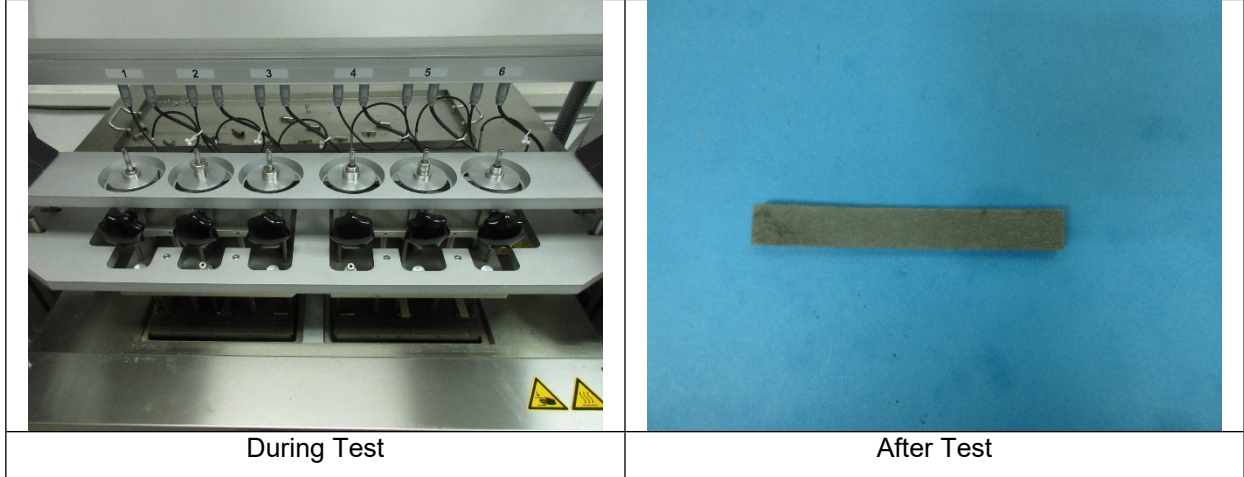
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Equipment Information:

Equipment	Model	Equipment No.	Calibration date	Next Calibration date
HDT and VICAT Tester	IC 6	GZMR-PL-E348	2023-06-21	2024-06-20



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5. Test Item: Flexural Test

Sample Description: Plastic part

Test Method: ISO 178:2019 Method A

Test Condition:

Specimen: 80mm×10.12mm×4.07mm

Testing speed: 2mm/min

Span: 64mm

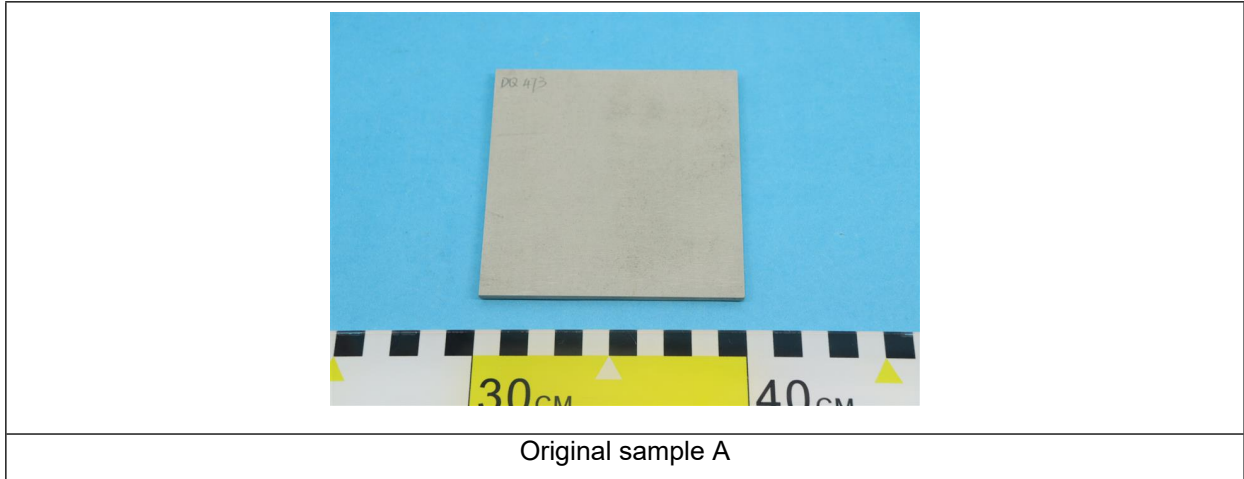
Lab Environmental Condition: (23±2)°C, (50±5)%RH

Test Result:

Test Item	Test Result
Flexural Strength	39.7MPa
Flexural Modulus	2620MPa

Note: Test specimens were cut from the sample.

Test Photo:



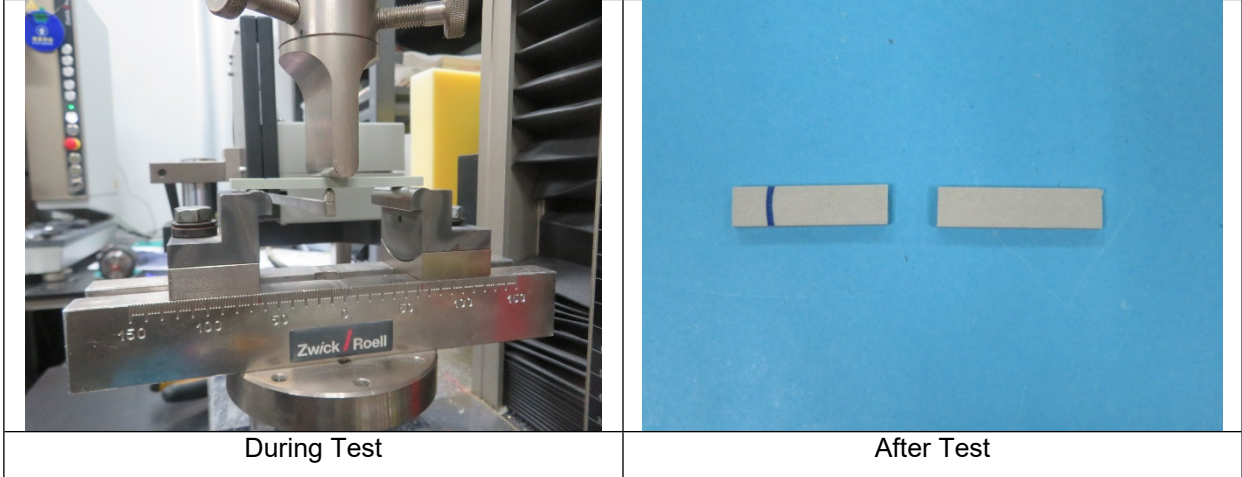
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Equipment Information:

Equipment	Model	Equipment No.	Calibration date	Next Calibration date
Universal Testing Machine	Z1.0	GZMR-PL-E252	2023-11-01	2024-10-31

6. Test Item: Compressive Stress at Yield

Sample Description: Plastic part

Test Method: ISO 604:2002

Test Condition:

Specimen: Type B

Specimen thickness: 4.08mm

Testing speed: 5mm/min

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

Test Result:

Test Item	Test Result
Compressive Stress at Yield	47.9MPa

Note: Test specimens were cut from the sample.



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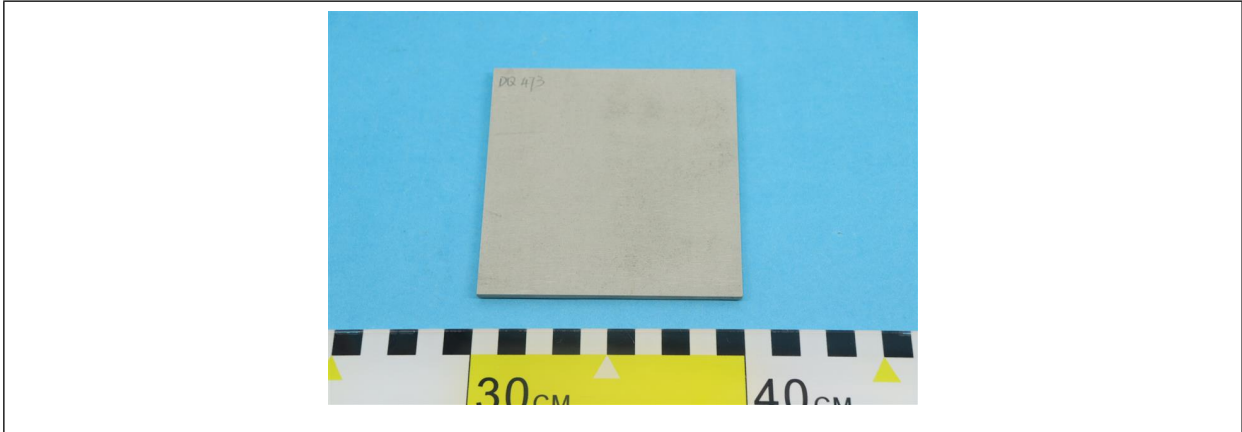
TEST REPORT

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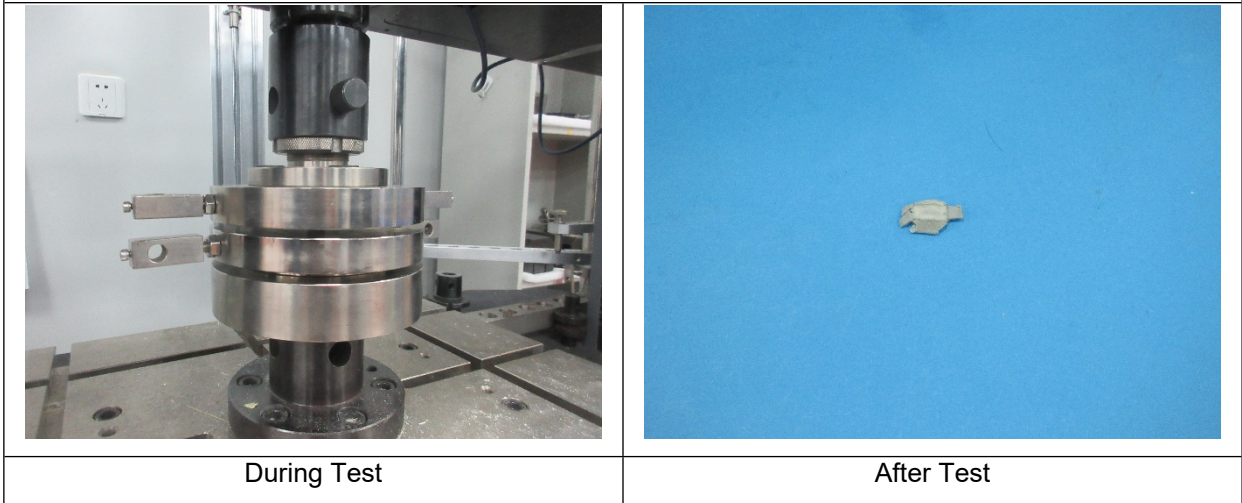
Date : Dec 27, 2023

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Test Photo:



Original sample A



Equipment Information:

Equipment	Model	Equipment No.	Calibration date	Next Calibration date
Universal testing machine	E45.105	GZMR-PL-E307	2023-03-01	2024-02-29



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7.Test Item: Charpy Unnotched Impact Strength

Sample Description: Plastic part

Test Method: ISO 179-1:2023

Test Condition:

Specimen: ISO 179-1/1eU

Specimen thickness: 4.11mm

The capacity of the pendulum: 1J

Impact speed: 2.9m/s

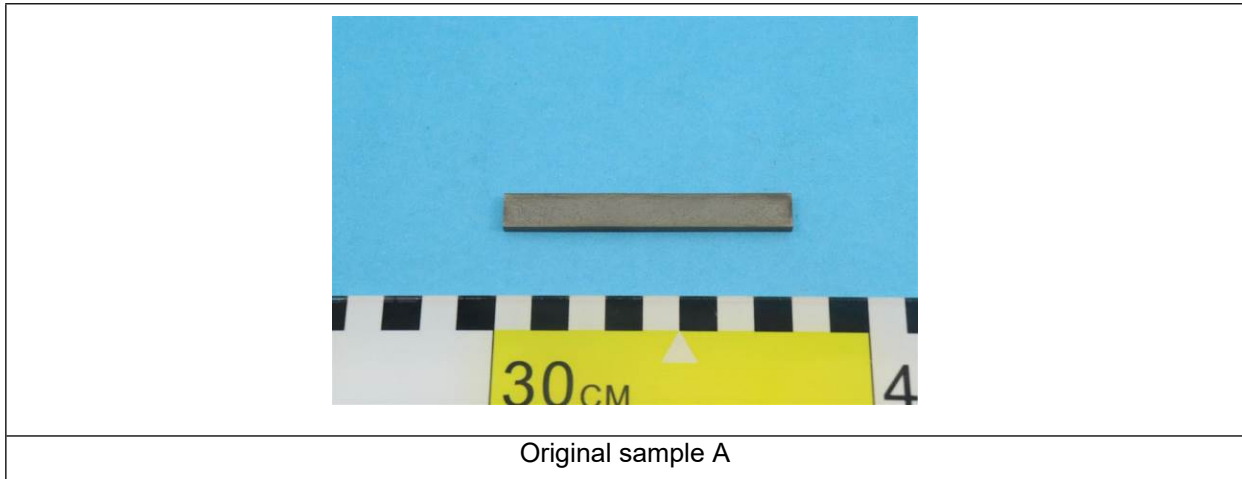
Span: 62mm

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

Test Result:

Test Item	Test Result
Charpy Unnotched Impact Strength	6.25kJ/m ² C (complete break)

Test Photo:



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Equipment Information:

Equipment	Model	Equipment No.	Calibration date	Next Calibration date
Impact Tester	HIT50P	GZMR-PL-E283	2023-06-26	2024-06-25

Appendix information:

1. This test report supersedes test report No. GZMR231103530301, the original test report is void.
2. This report updates testing end date.
3. This report updates test result, test photo of test item 5 & 6.

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



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