

TEST REPORT

No. : GZIN1911062095CM

Date : Nov 28, 2019

Page: 1 of 16

CUSTOMER NAME: SOLIDTOP CO., LTD.
ADDRESS: NO.16, XINGHAN ROAD, SANZAO TOWN, JINWAN AREA, ZHUHAI CITY,
GUANGDONG PROVINCE, CHINA

Sample Name : SOLID SURFACE

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.

Date of Receipt : Nov 18, 2019
Testing Start Date : Nov 18, 2019
Testing End Date : Nov 28, 2019
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. GZ Branch Testing
Center

Tobby Yang
Authorized signatory



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Summary of Results:

No.	Test Item	Test Method	Result	Conclusion	
1	Abrasion Resistance	EN 14617-4:2012	See test result	/	
2	Impact Resistance	EN 14617-9:2005	6.52 J	/	
3	Resistance to Dry Heat	EN 438-2:2016 Section 16	Rating 5	/	
4	Water Absorption and Apparent Density	EN 14617-1:2013	Water absorption: 0.03% Apparent density: 1890 kg/m ³	/	
5	Resistance to Stains	EN 14617-10:2012 Annex A	See test result	/	
6	Resistance to Immersion in Boiling Water	EN 438-2:2016 Section 12	See test result	/	
7	Flexural Test	EN ISO 178:2019 Method A	Flexural Strength	53.2MPa	/
			Flexural Modulus	10200MPa	
8	Izod Unnotched Impact Strength	EN ISO 180:2000/Amd.2:2013	2.9kJ/m ² C (Complete break)	/	
9	Tensile Modulus	EN ISO 527-1:2012 & EN ISO 527-2:2012	9610MPa	/	
10	Tensile Test	EN ISO 527-1:2012 & EN ISO 527-2:2012	Tensile Strength	37.0MPa	/
			Tensile Strain at Break	0.47%	

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



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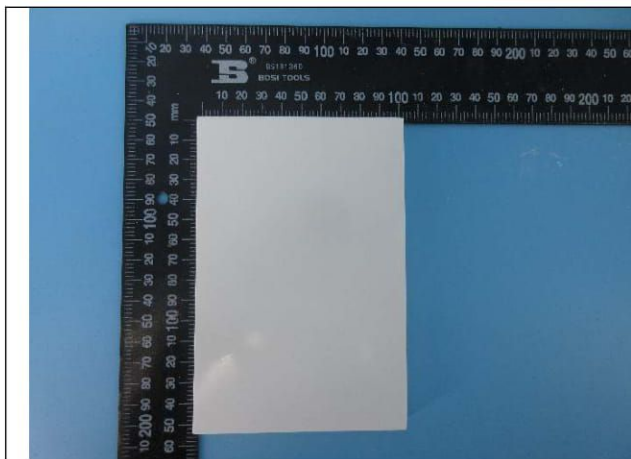
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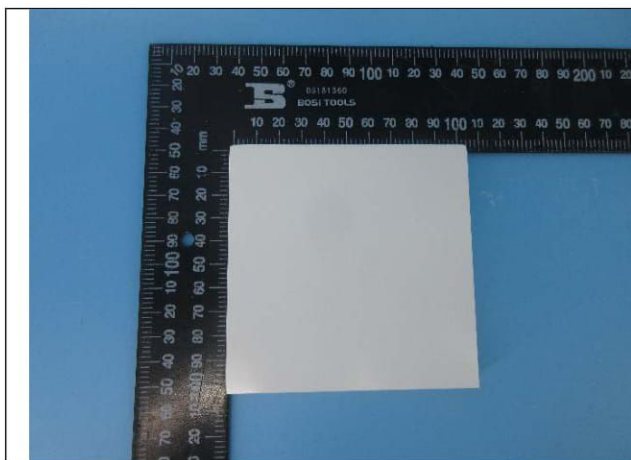
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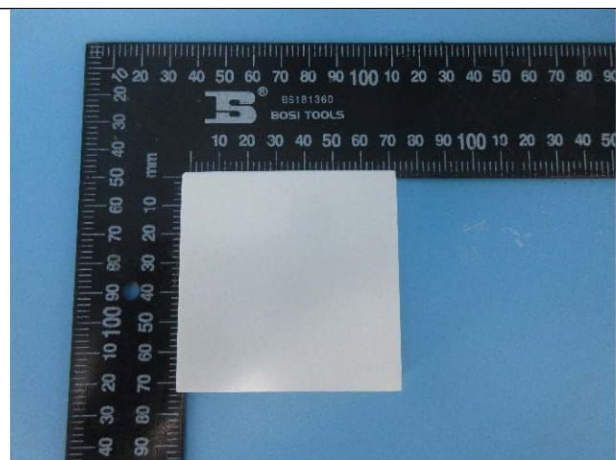
Sample-Test Item 1



Sample-Test Item 2,3



Sample-Test Item 4



Sample-Test Item 5



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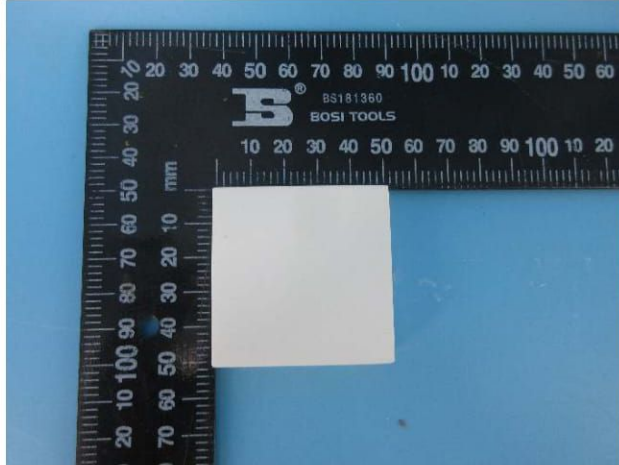
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Sample-Test Item 6



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Test Item 1: Abrasion Resistance

Sample Description: See photo

Test Method: EN 14617-4:2012

Test Condition:

Specimens: 150mm×100mm×12.10mm, 6pcs

Test Result:

Specimens identification No.	1	2	3	4	5	6
The length of the groove (mm)	28.0	29.5	28.5	30.0	28.0	28.0

Test Item 2: Impact Resistance

Sample Description: See photo

Test Method: EN 14617-9:2005

Test Condition:

Specimens: 230mm×230mm×11.85mm, 4pcs

Test Result:

Specimens identification No.	1	2	3	4
Fracture work, L (J)	7.02	6.52	6.52	6.03
Average value (J)	6.52			

Note: The fracture work L in joule is expressed by the formula

$$L=M \times h \times g$$

Where

M is the sphere mass, 1.008kg

h is the drop height in meters of the sphere which causes the sample to break

g is the gravity acceleration equal to 9.806m/s²



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Test Item 3: Resistance to Dry Heat

Sample Description: See photo

Test Method: EN 438-2:2016 Section 16

Test Condition:

Specimen: 230×230×12.08mm

Condition: 160°C, 20min

Test result: Rating 5

Expression of results:

Rating	Description
5	No change test area indistinguishable from adjacent surrounding area
4	Minor change Test area distinguishable from adjacent surrounding area, only when the light source is mirrored on the test surface and is reflected towards the observer's eye, e. g. discoloration, change in gloss and colour
3	Moderate change Test area distinguishable from adjacent surrounding area, visible in several viewing directions, e.g. discoloration, change in gloss and colour, no change in the surface structure, e.g. deformation, cracking, blistering
2	Significant change Test area clearly distinguishable from adjacent surrounding area, visible in all viewing directions, e. g. discoloration, change in gloss and colour, and / or structure of the surface slightly changed, e.g. slight cracking, slight blistering
1	Strong change the structure of the surface being distinctly changed e.g. strong cracking, strong blistering and /or discoloration, change in gloss and colour, and / or the surface material being totally or partially delaminated



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Test Item 4: Apparent Density and Water Absorption

Sample Description: See photo

Test Method: EN 14617-1:2013

Test Condition:

Specimens: 100mm×100mm×10.02mm, 6pcs

Condition: Dry in an oven at 70°C for 24h, Immerse in distilled water at 22°C for 48h

Test Result:

Specimens identification No.	1	2	3	4	5	6
Water absorption (%)	0.04	0.03	0.04	0.03	0.03	0.03
Arithmetic mean of the water absorption (%)	0.03					
Apparent density (kg/m ³)	1879	1879	1891	1893	1894	1902
Arithmetic mean of the apparent density (kg/m ³)	1890					



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Test Item 5: Resistance to Stain

Sample Description: See photo

Test Method: EN 14617-10:2012 Annex A

Test Condition:

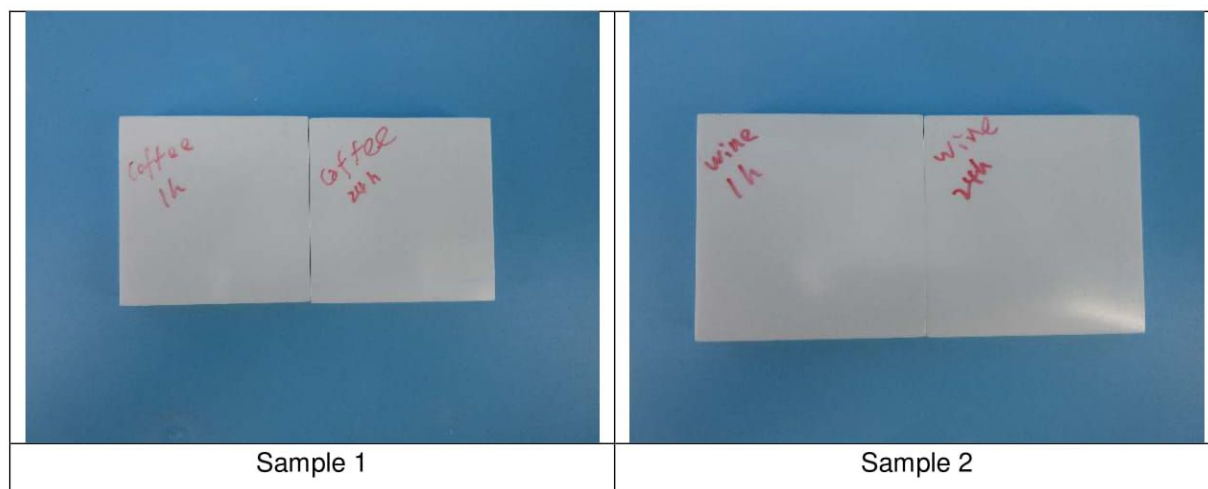
Specimen:70mm×70mm×11.96mm, 8pcs

Test reagents: (1) Coffee, (2) Wine, (3) Cola, (4) Cement or grout

Test Result:

Test reagents	Sample NO.	Results
Coffee	1 (1h)	No obvious change
	1 (24h)	No obvious change
Wine	2 (1h)	No obvious change
	2 (24h)	No obvious change
Cola	3(1h)	No obvious change
	3 (24h)	No obvious change
Cement grout	4(1h)	No obvious change
	4 (24h)	No obvious change

Test Photo:



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Guangzhou Special Testing Laboratory Calibration Material Laboratory

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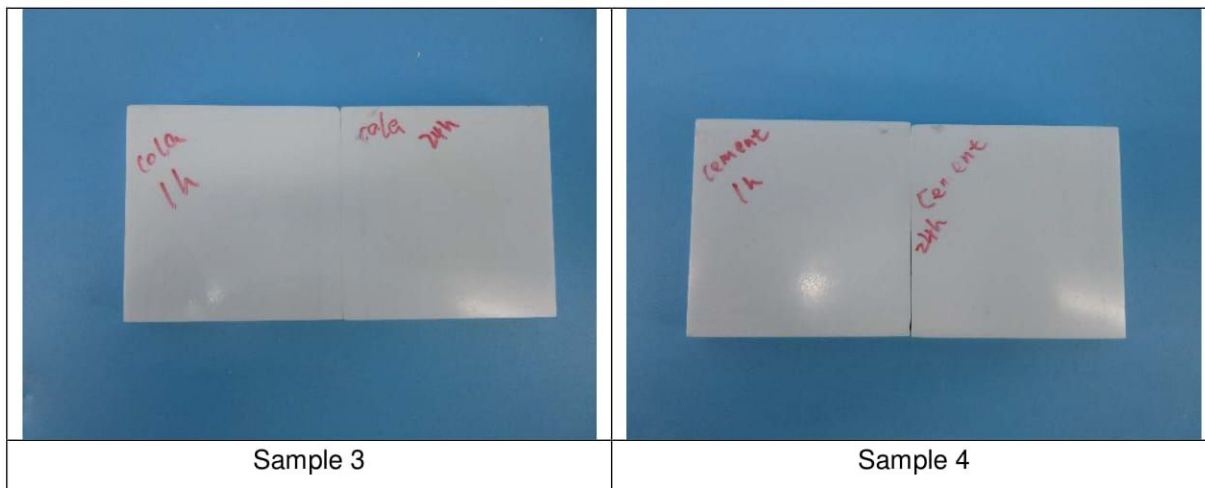
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Sample 3

Sample 4

Test Item 6: Resistance to Immersion in Boiling Water

Sample Description: See photo

Test Method: EN 438-2:2016 Section 12

Test Condition:

Specimen: 50×50×11.90mm

Condition: Immersion in boiling water for 2h → Immersion in cooling water for 15min

Test result:

Mass increase: 0.14%

Thickness increase: 0.29%

Surface appearance: Rating 5

Edge appearance: Rating 5

Expression of surface rating scale results:

Rating	Description
5	No visible change
4	Slight change of gloss and/or colour, only visible at certain viewing angles
3	Moderate change of gloss and/or colour
2	Marked change of gloss and/or colour or surface blistering
1	Surface layers delamination.



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Expression of edge rating scale results:

Rating	Description
5	No visible change
4	Slight hairline edge cracks visible to the naked eyes
3	Moderate edge cracks
2	Severe edge cracks
1	Core layers delamination

Test Item 7: Flexural Test

Sample Description: Plastic part

Test Method: EN ISO 178:2019 Method A

Test Condition:

Specimen: 80mm×9.98mm×3.99mm

Testing speed: 2mm/min

Span: 64mm

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

Test Result:

Test Item	Test Result
Flexural Strength	53.2MPa
Flexural Modulus	10200MPa



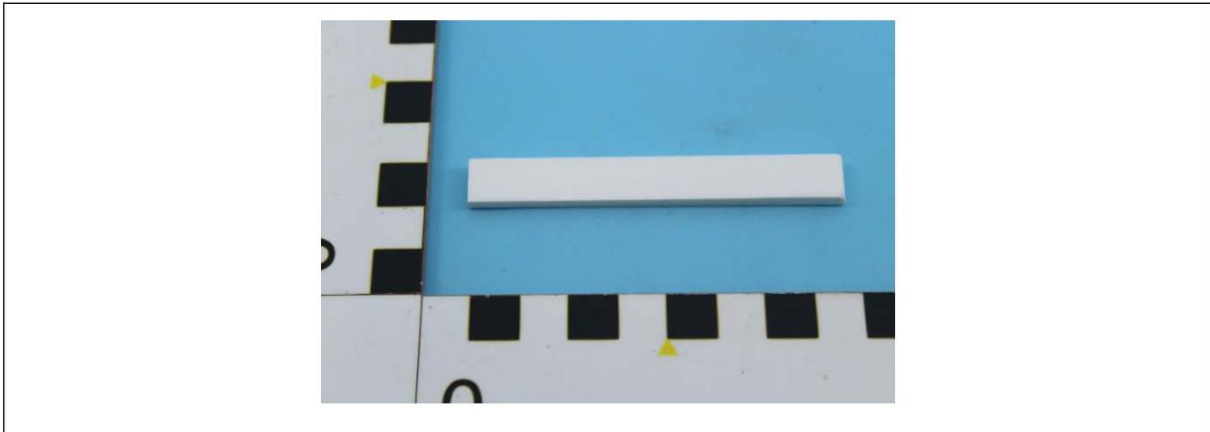
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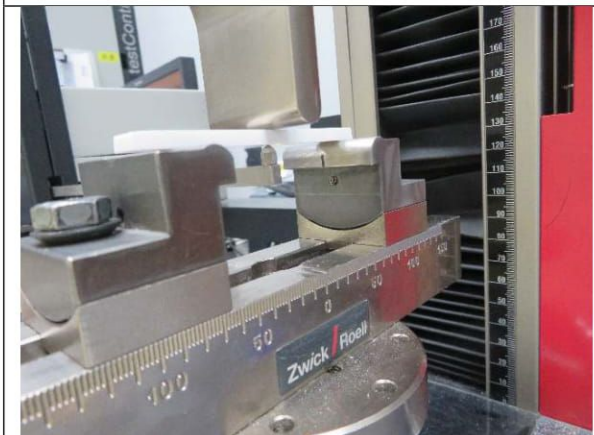
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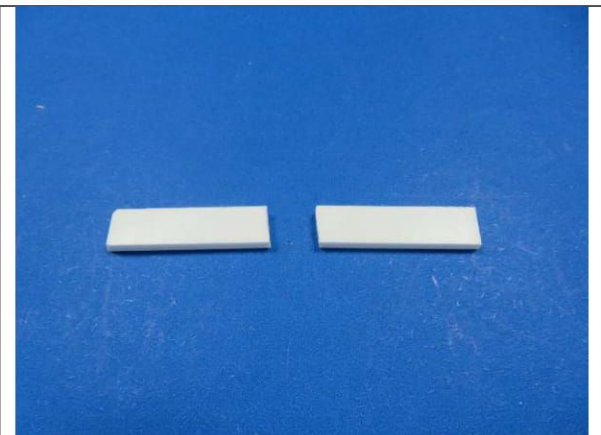
Test Photo:



Original sample



During test



After test



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Test Item 8: Izod Unnotched Impact Strength

Sample Description: Plastic part

Test Method: EN ISO 180:2000/Amd.2:2013

Test Condition:

Specimen: ISO 180/U

Specimen thickness: 4.14mm

The capacity of the pendulum: 1J

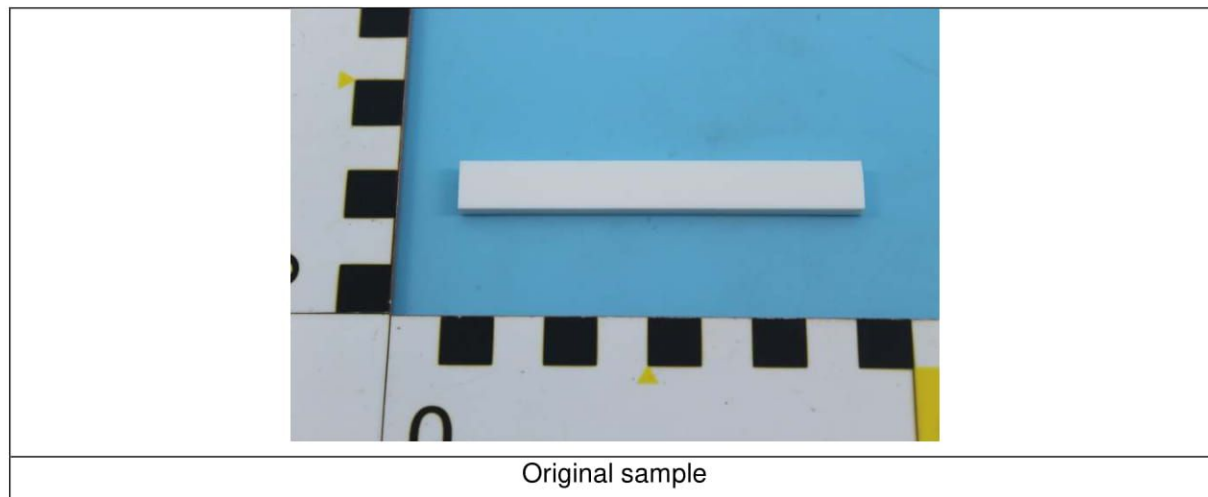
Impact speed: 3.46 m/s

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

Test Result:

Test Item	Test Result
Izod Unnotched Impact Strength	2.9kJ/m ² C (Complete break)

Test Photo:



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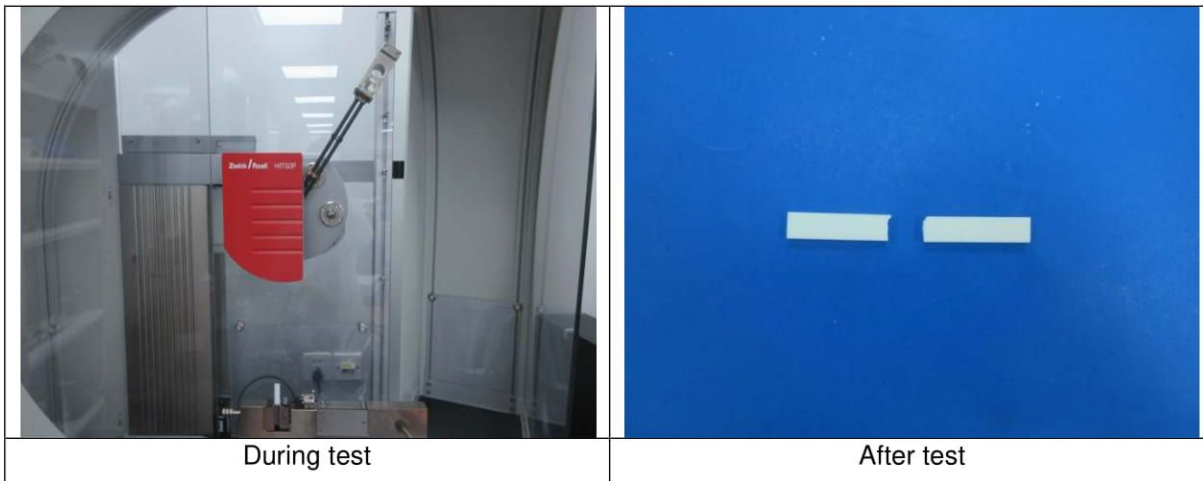
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Test Item 9: Tensile Modulus

Sample Description: Plastic part

Test Method: EN ISO 527-1:2012 & EN ISO 527-2:2012

Test Condition:

Specimen: Type 1A

Specimen thickness: 11.77 mm

Testing speed: 1 mm/min

Gauge length: 75 mm

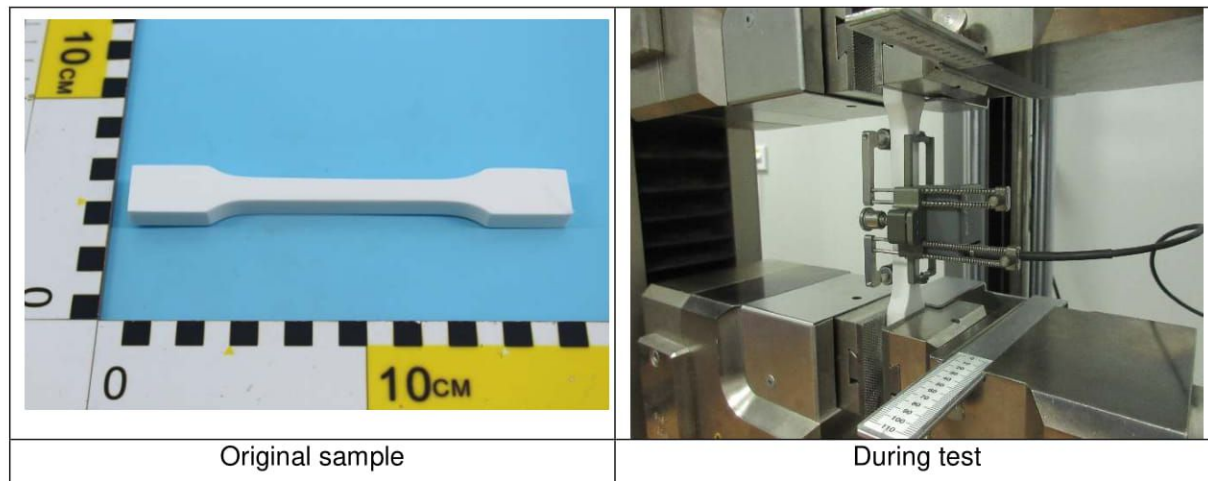
Initial distance between grips: 115 mm

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

Test Result:

Test Item	Test Result
Tensile Modulus	9610MPa

Test Photo:



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Test Item 10: Tensile Test

Sample Description: Plastic part

Test Method: EN ISO 527-1:2012 & EN ISO 527-2:2012

Test Condition:

Specimen: Type 1A

Specimen thickness: 11.82 mm

Testing speed: 5 mm/min

Gauge length: 75 mm

Initial distance between grips: 115 mm

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

Test Result:

Test Item	Test Result
Tensile Strength	37.0MPa
Tensile Strain at Break	0.47%



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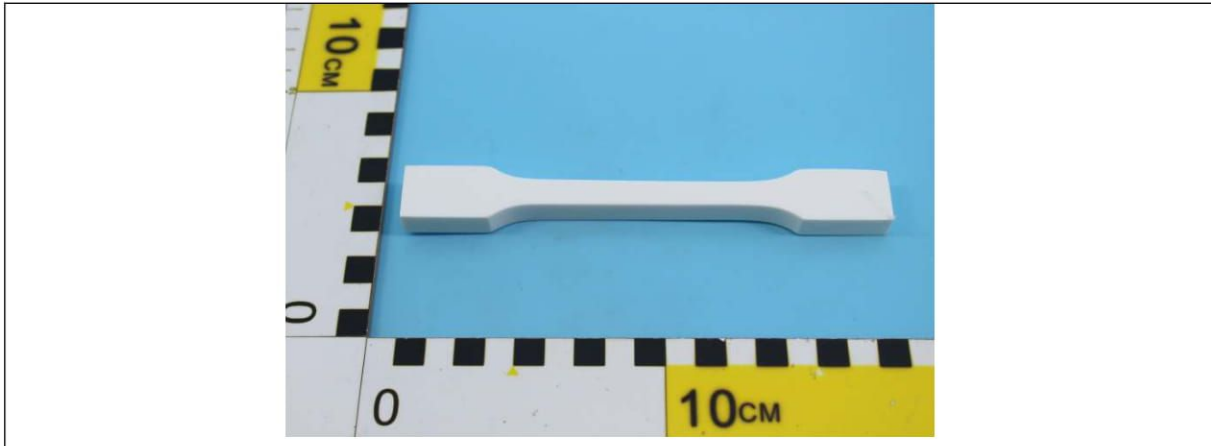
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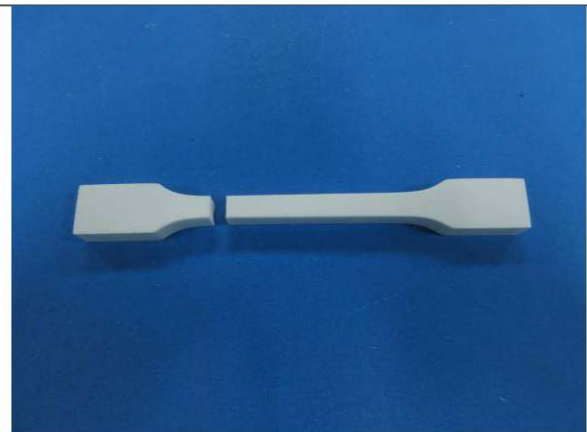
Test Photo:



Original sample



During test



After test

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



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