

## TEST REPORT

No. : SZIN1807009031PS

Date : Aug 01, 2018

Page: 1 of 10

CUSTOMER NAME: Guangzhou Ning E-Plastics company  
ADDRESS: Rm.136,Lin he zhong Rd.TianHe,GZ,China

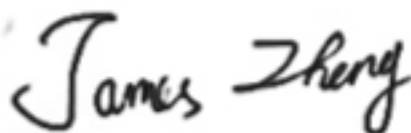
Sample Name : ABS  
Manufacturer : Guangzhou Ning E-Plastics company

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. : GZIN1807036886MR\_CN  
Date of Receipt : Jul 11, 2018  
Testing Start Date : Jul 11, 2018  
Testing End Date : Aug 01, 2018  
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. Shenzhen Branch  
Testing Center



James Zheng  
Authorized signatory



SGS-CSTC Standards Technical Services Co., Ltd.  
Shenzhen Branch Testing Center - Materials Laboratory

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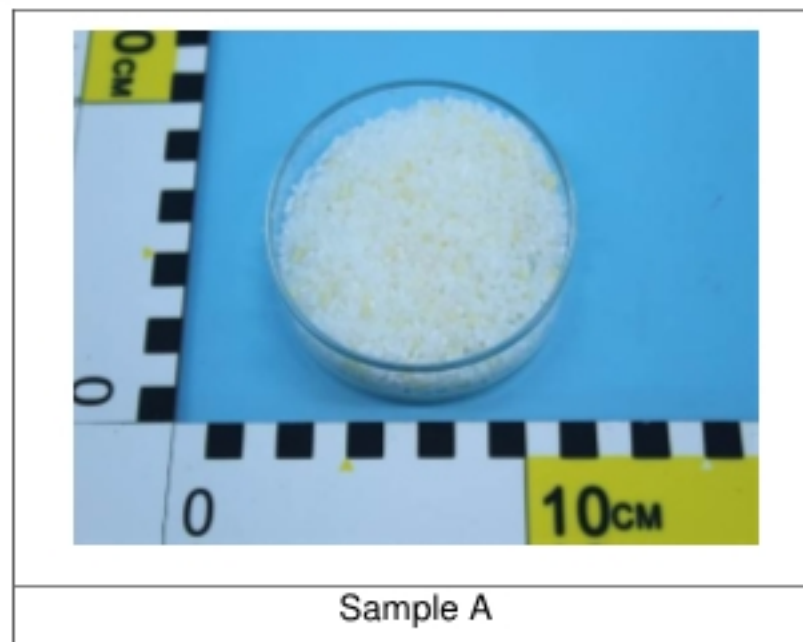
Date : Aug 01, 2018

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Summary of Results:

No.	Test Item	Test Method	Result	
1	Charpy Notched Impact Strength	ISO 179-1:2010	24kJ/m <sup>2</sup> C* (Complete break)	
2	Flexural Test	ISO 178:2010/Amd.1:2013 Method A	Flexural Strength	69.4MPa
			Flexural Modulus	2450MPa
3	Izod Notched Impact Strength	ISO 180:2000/Amd.2:2013	22kJ/m <sup>2</sup> P (Partial break)	
4	Tensile Modulus	ISO 527-1:2012 & ISO 527-2:2012	2290MPa	
5	Tensile Test	ISO 527-1:2012 & ISO 527-2:2012	Tensile Strength	41.2MPa
			Nominal Tensile Strain at Break	13%

Original Sample Photo:



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1. Test Item: Charpy Notched Impact Strength

Sample Description: Plastic raw material

Test Method: ISO 179-1:2010

Test Condition:

Specimen: ISO 179-1/1eA (Notch preparation: machining)

The capacity of the pendulum: 5J

Impact speed: 2.90m/s

Span: 62mm

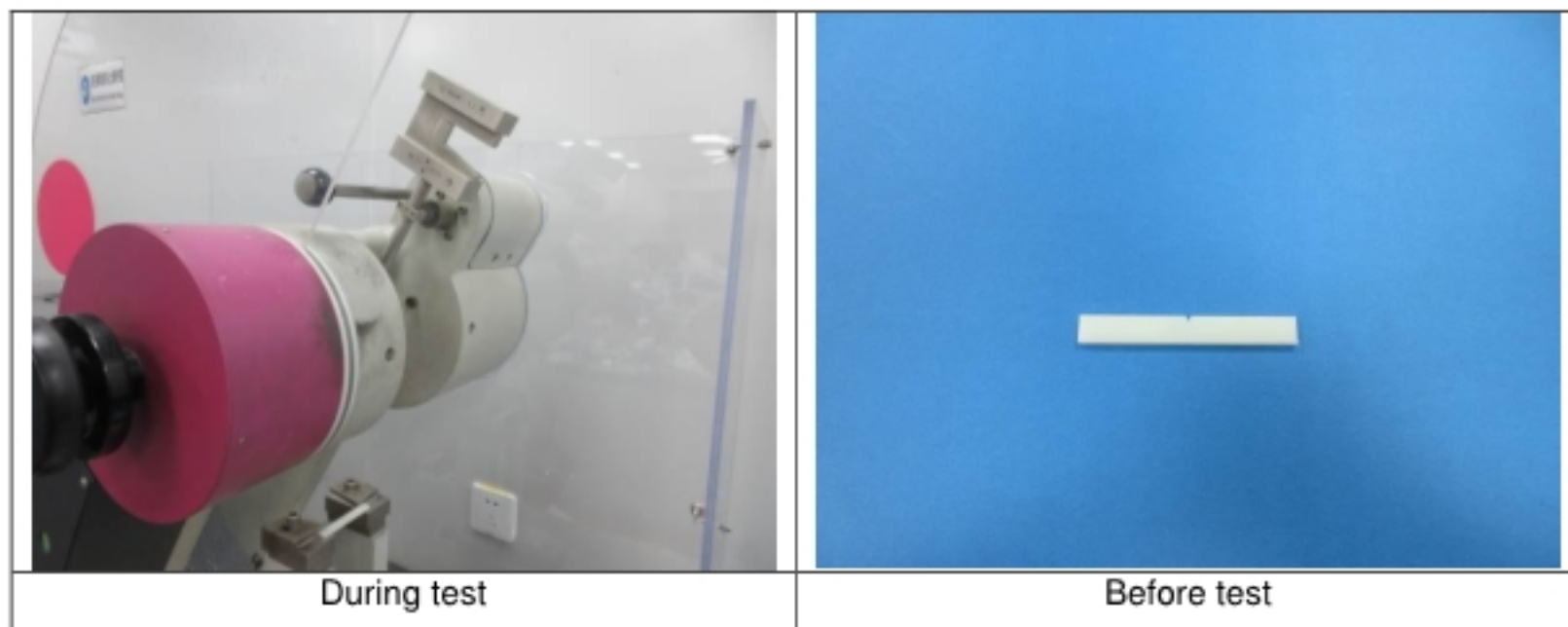
Lab Environmental Condition: 23 2°C, 50 5%RH

Test Result:

Test Item	Test Result
Charpy Notched Impact Strength	24kJ/m <sup>2</sup> C* (Complete break)

Note: Test specimens were injection molded.

Test Photo:

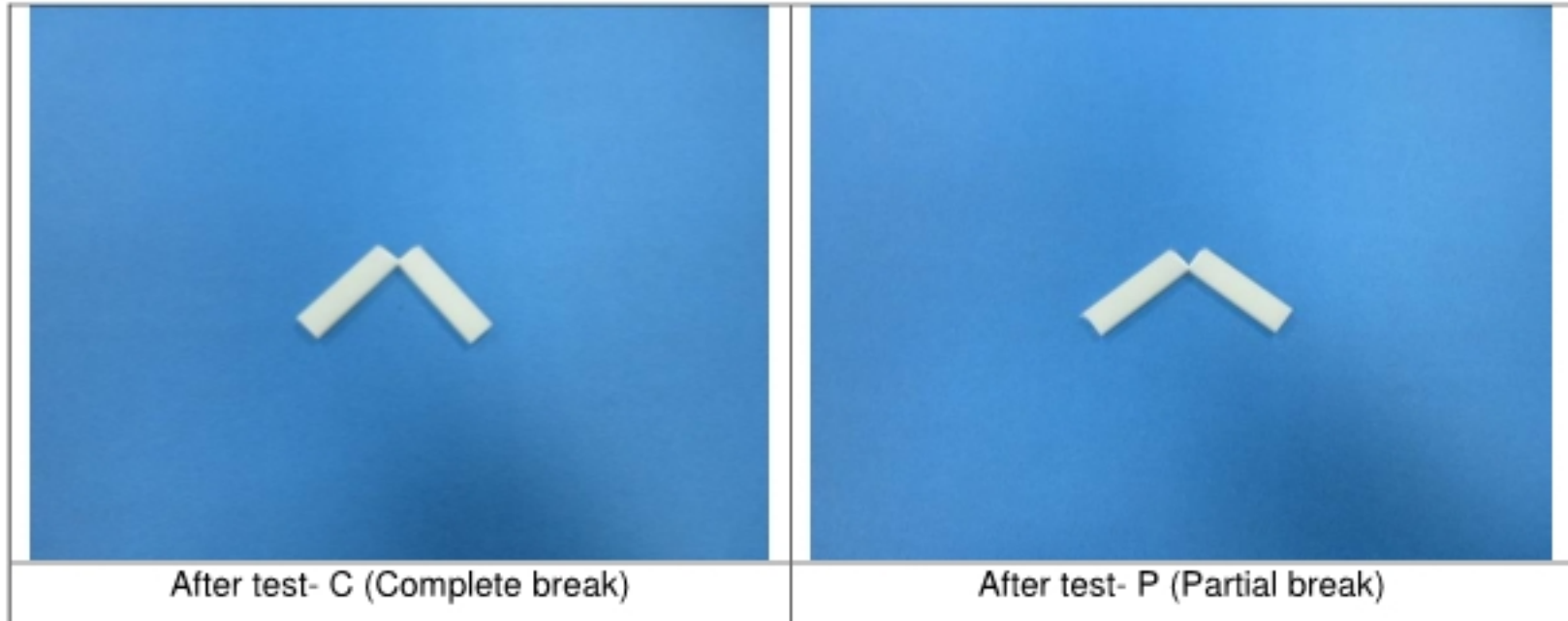


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Equipment Information:

Equipment	Model	Equipment No.	Calibration date	Next Calibration date
Impact Tester	6967	GZMR-PL-E008	2017-10-10	2018-10-09

2. Test Item: Flexural Test

Sample Description: Plastic raw material

Test Method: ISO 178:2010/Amd.1:2013 Method A

Test Condition:

Specimen: 80mm×10.00mm×4.04mm

Testing speed: 2mm/min

Span: 64mm

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

Test Result:

Test Item	Test Result
Flexural Strength	69.4MPa
Flexural Modulus	2450MPa

Note: Test specimens were injection molded.



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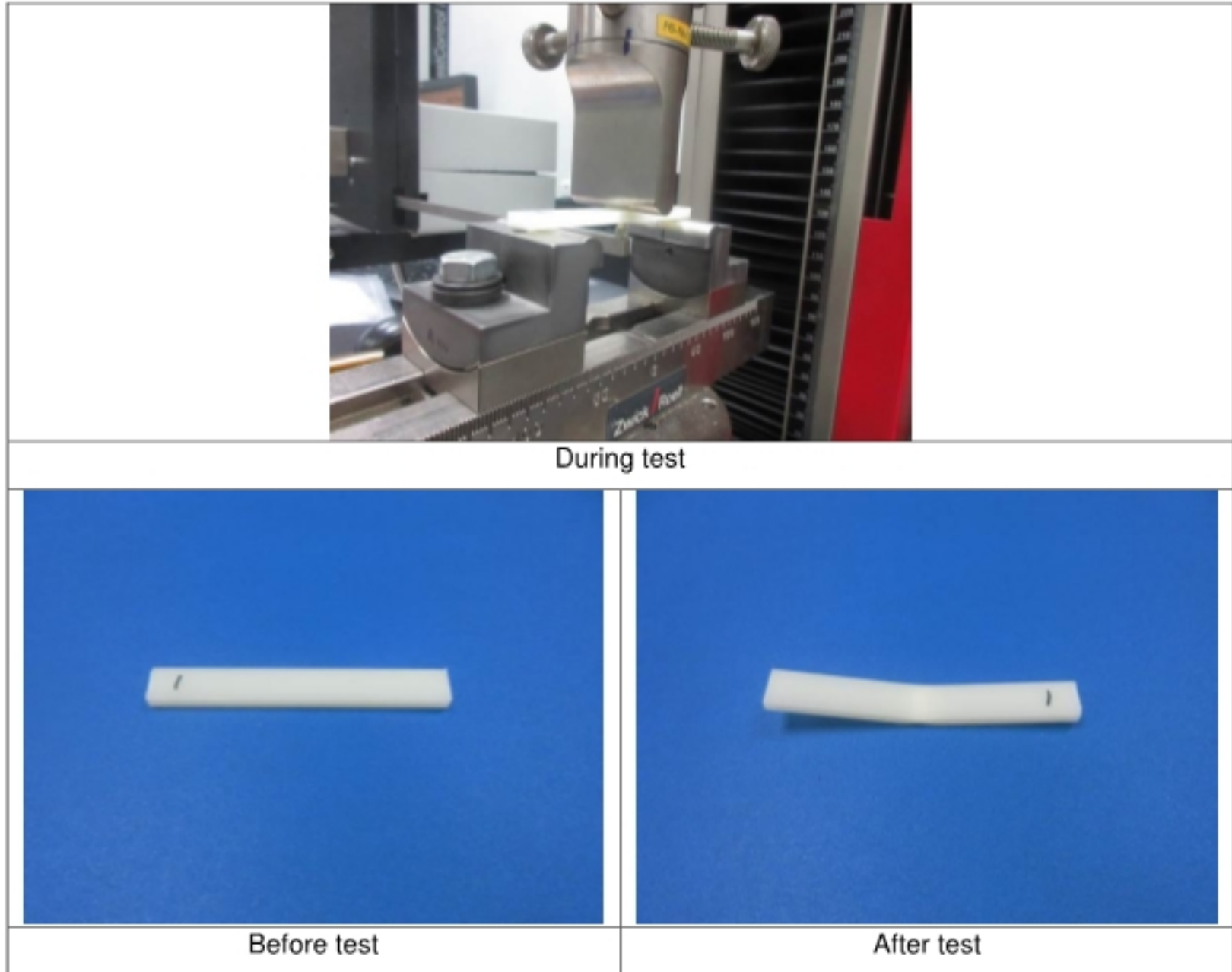
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Test Photo:



Equipment Information:

Equipment	Model	Equipment No.	Calibration date	Next Calibration date
Universal testing machine	Z1.0	GZMR-PL-E252	2018-04-17	2019-04-16



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3.Test Item: Izod Notched Impact Strength

Sample Description: Plastic raw material

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

Test Condition:

Specimen: ISO 180/A (Notch preparation: machining)

The capacity of the pendulum: 5.5J

Impact speed: 3.46 m/s

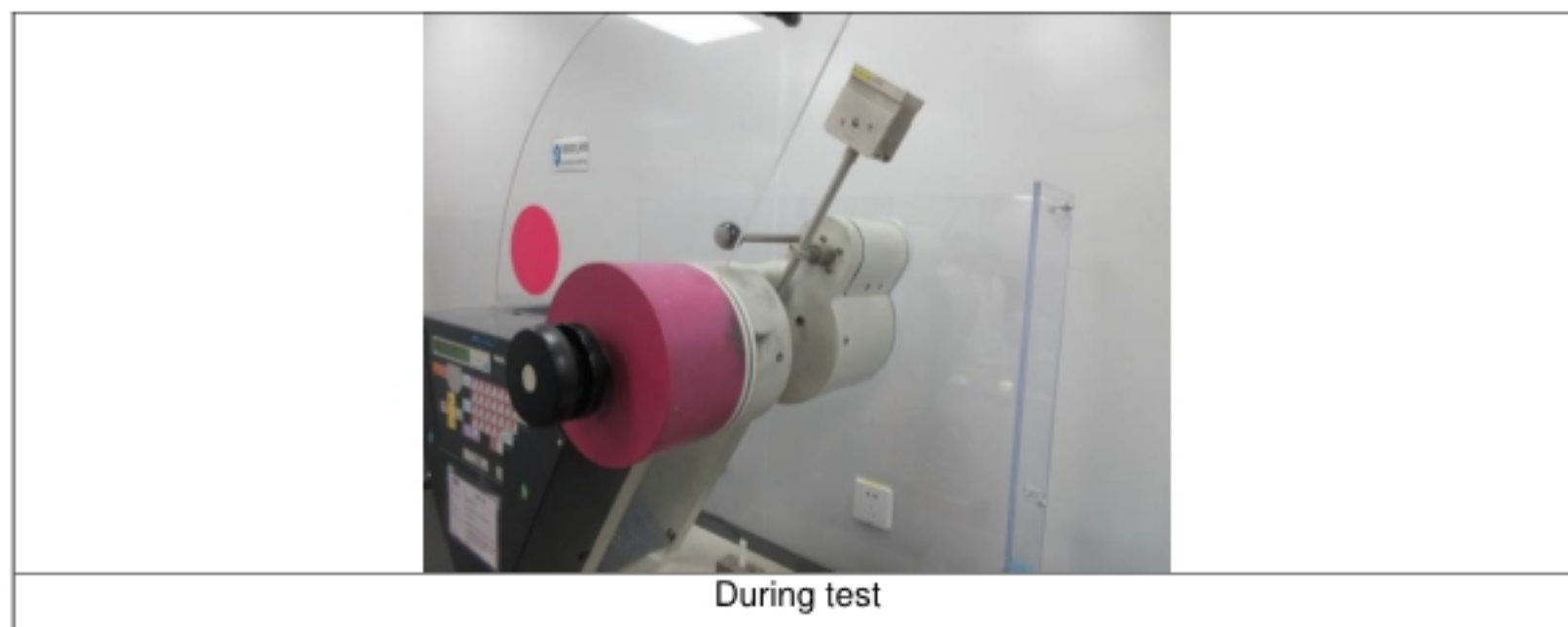
Lab Environmental Condition: 23 ± 2 °C, 50 ± 5 % RH

Test Result:

Test Item	Test Result
Izod Notched Impact Strength	22kJ/m <sup>2</sup> P (Partial break)

Note: Test specimens were injection molded.

Test Photo:

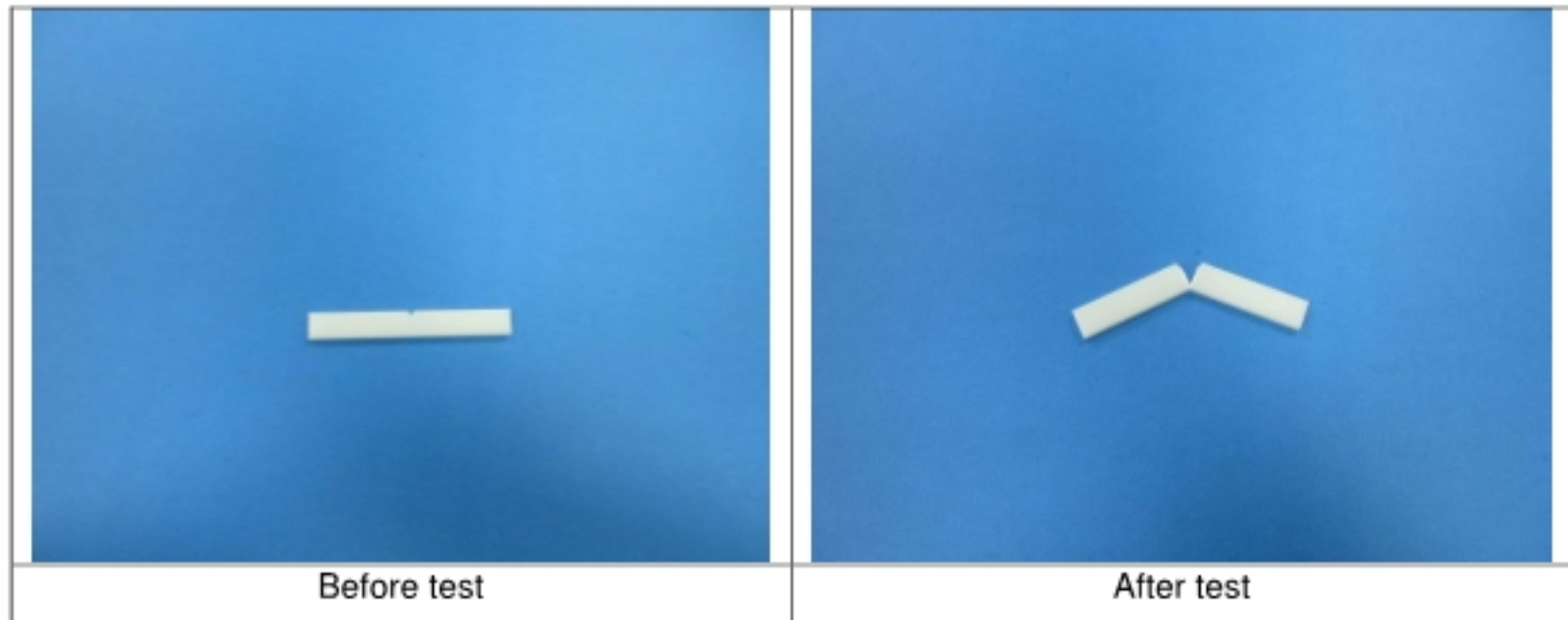


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Equipment Information:

Equipment	Model	Equipment No.	Calibration date	Next Calibration date
Impact Tester	6967	GZMR-PL-E008	2017-10-10	2018-10-09

4. Test Item: Tensile Modulus

Sample Description: Plastic raw material

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

Test Condition:

Specimen: Type 1A

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	2290MPa

Note: Test specimens were injection molded.



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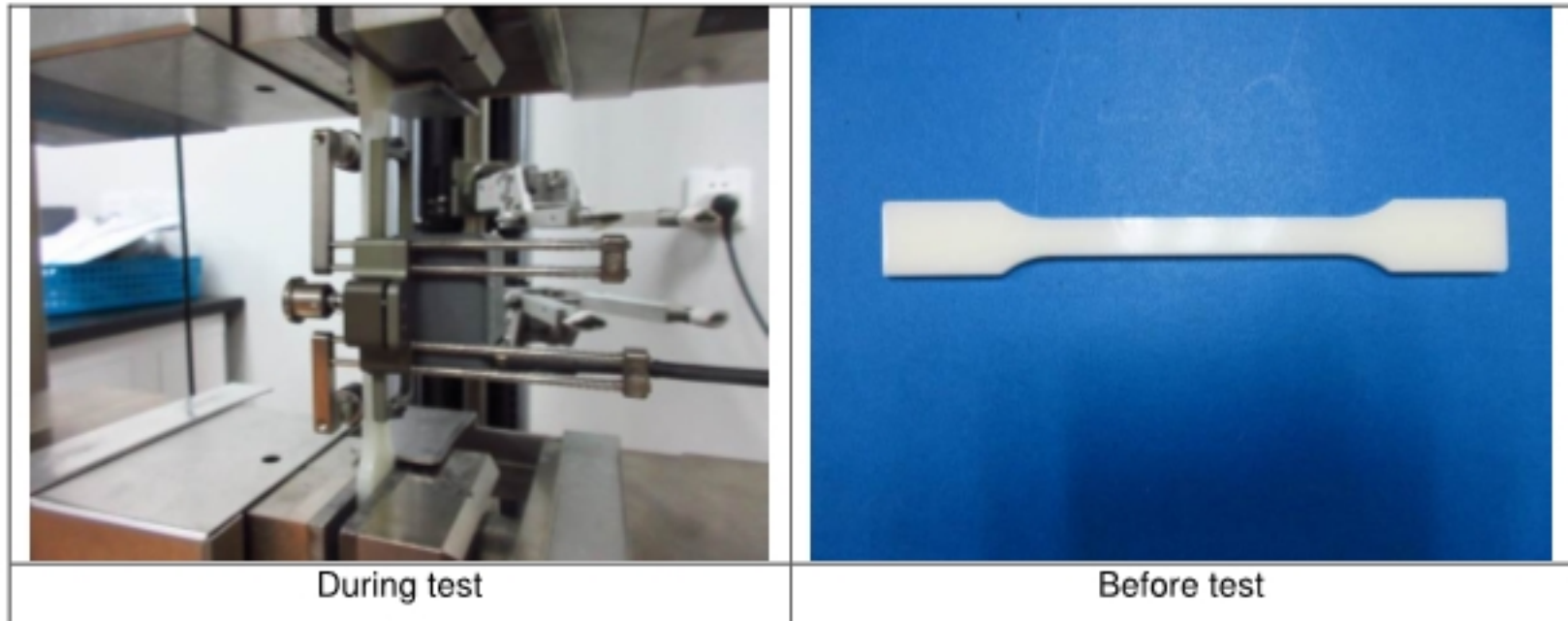
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Test Photo:



Equipment Information:

Equipment	Model	Equipment No.	Calibration date	Next Calibration date
Universal Testing Machine	Z030	GZMR-PL-E140	2017-10-10	2018-10-09

5.Test Item: Tensile Test

Sample Description: Plastic raw material

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

Test Condition:

Specimen: Type 1A

Testing speed: 5 mm/min

Gauge length: 75 mm

Initial distance between grips: 115 mm

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



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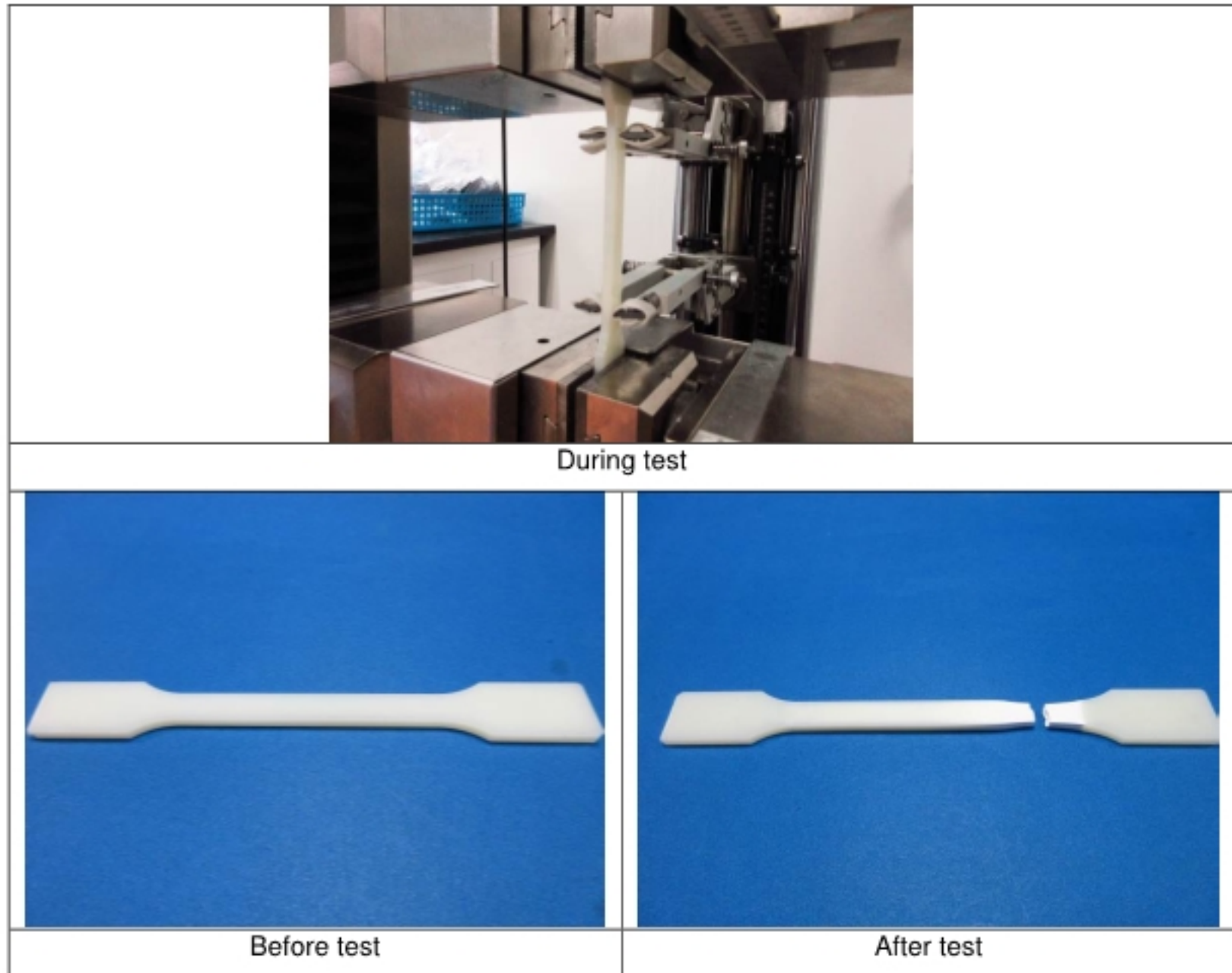
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Test Result:

Test Item	Test Result
Tensile Strength	41.2MPa
Nominal Tensile Strain at Break	13%

Note: Test specimens were injection molded.

Test Photo:



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Equipment Information:

Equipment	Model	Equipment No.	Calibration date	Next Calibration date
Universal Testing Machine	Z030	GZMR-PL-E140	2017-10-10	2018-10-09

Appendix information:

The above tests were carried out by SGS-CSTC Standards Technical Services Co., Ltd. GuangZhou Branch.

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



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