

TEST REPORT

No. : SZIN1512013023PS

Date : Dec 30, 2015

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CUSTOMER NAME: SHENZHEN RISEWELL INDUSTRY., LTD
ADDRESS: 8TH FLOOR, BLOCK B, ZHONGYIN PLAZA, CAI TIAN ROAD, FUTIAN DISTRICT, SHENZHEN, CHINA

The following sample(s) was/ were submitted and identified on behalf of the client as:

Sample Name : CHEM-TOP LAMINATE
SGS Ref. No. : GZIN1512055424MR
Date of Receipt : Dec 21, 2015
Testing Start Date : Dec 21, 2015
Testing End Date : Dec 30, 2015
Test result(s) : For further details, please refer to the following page(s)

Signed for
SGS-CSTC Standards Technical
Services Co., Ltd. Shenzhen Branch
Testing Center

Ramber Li
Authorized signatory



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Summary of Results:

No.	Test Item	Test Method	Result	Conclusion	
1	Abrasion Resistance	ASTM D4060-14	Visible abrasion trace, but no exposure of the substrate.	/	
2	Compressive Strength	ISO 604:2002	286 MPa	/	
3	Flexural Test	With reference to ISO 178:2010/Amd.1:2013 Method A and client's requirement	Flexural Strength	130 MPa	/
			Flexural Elastic of Modulus	8020 MPa	
4	Izod Notched Impact Strength	ISO 180:2000/Amd.2:2013	8.2 kJ/m ²	/	
5	Tensile Strength	ISO 527-1:2012 & ISO 527-2:2012	109 MPa	/	
6	Water Absorption	ISO 62:2008 Method 1	0.74 %	/	

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



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1. Test Item: Abrasion Resistance

Sample Description: See photo

Test Method: ASTM D4060-14

Test Condition:

Wheel: CS-10

Load: 500g/wheel(total 1000g)

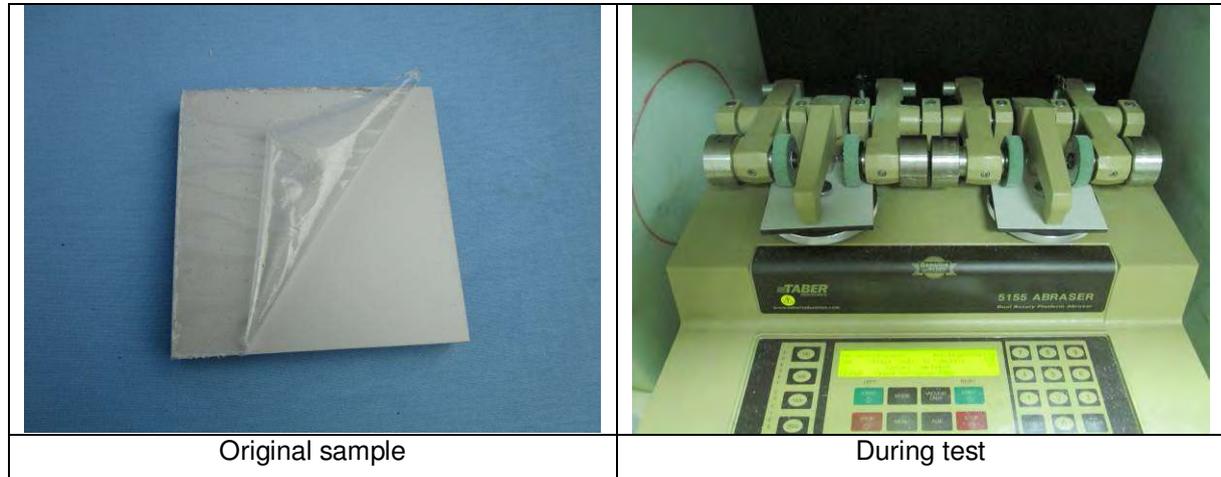
Cycles: 1000

Test Result:

Test Item	Appearance
Abrasion Resistance	Visible abrasion trace, but no exposure of the substrate.

Note: The protected film of test specimens was ripped off before test.

Test Photo:



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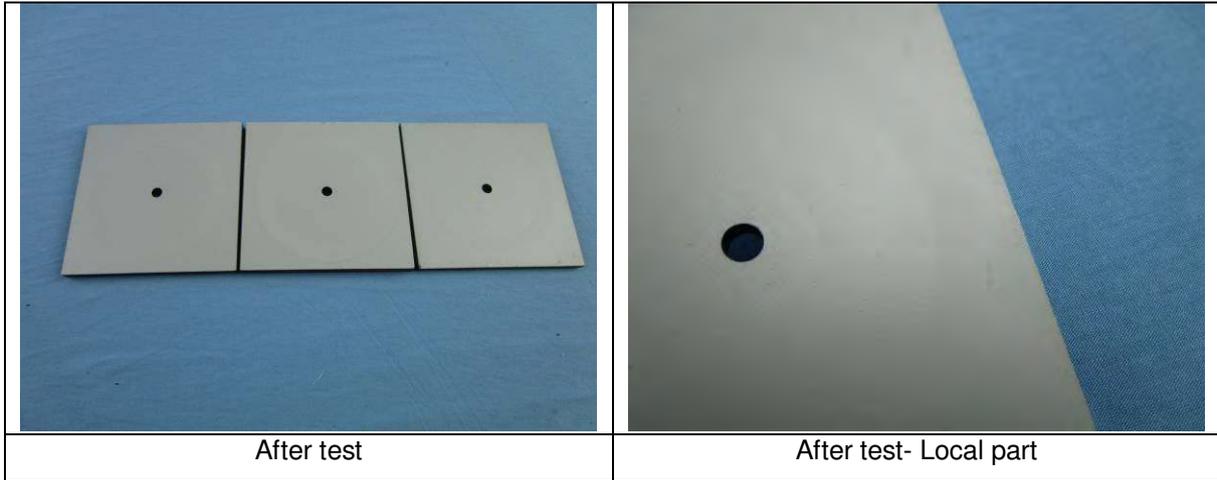
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Equipment Information:

Equipment	Model	Equipment No.	Calibration date	Next Calibration date
Taber Abraser	5155	GZMR-AG-E162	2015-11-11	2016-11-10



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2. Test Item: Compressive Strength

Sample Description: See photo

Test Method: ISO 604:2002

Test Condition:

Specimen: 10.36 mm×10.35 mm×12.90 mm

Testing speed: 1 mm/min

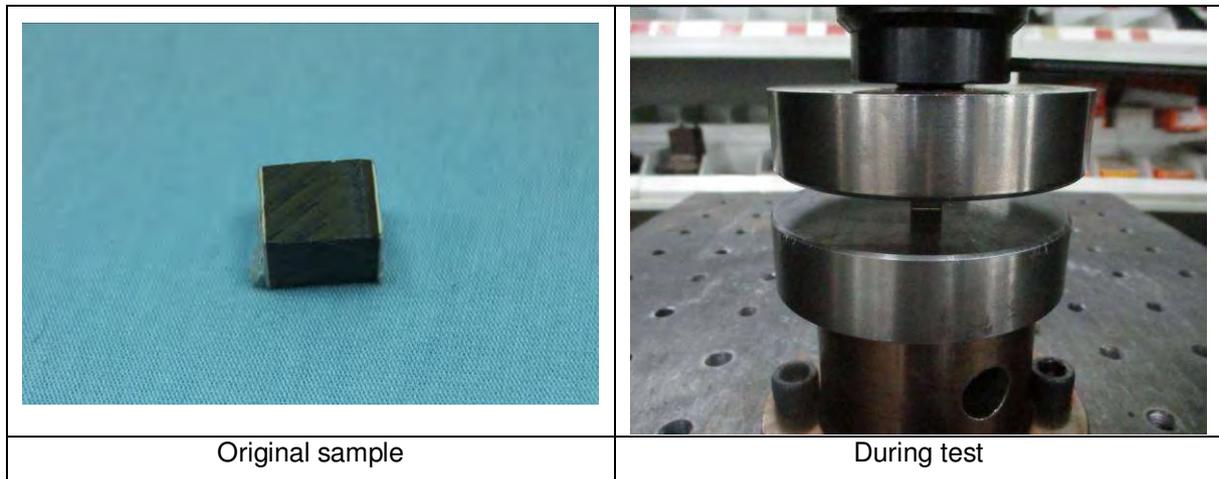
Lab Environmental Condition: 23±2°C, 50±5%RH

Test Result:

Test Item	Test Result
Compressive Strength	286 MPa

Note: The protected film of test specimens was ripped off before test.

Test Photo:



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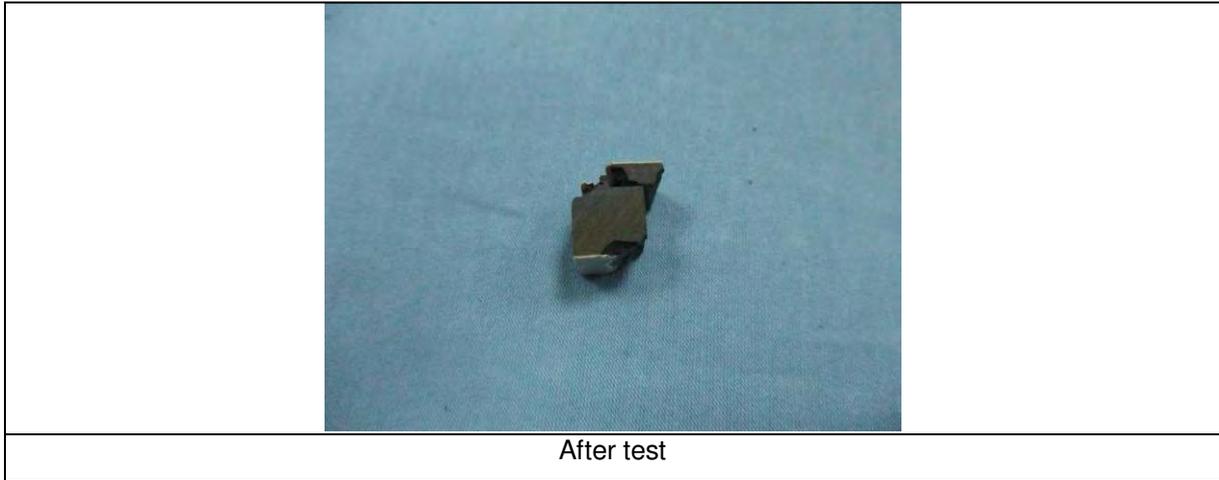
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Equipment Information:

Equipment	Model	Equipment No.	Calibration date	Next Calibration date
Universal Testing Machine	AG-IC 100KN	GZMR-MT-E044	2015-04-21	2016-04-20



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3. Test Item: Flexural Test

Sample Description: See photo

Test Method: With reference to ISO 178:2010/Amd.1:2013 Method A and client's requirement

Test Condition:

Specimen: 80 mm×10.43 mm×12.94 mm

Testing speed: 2 mm/min

Span: 64 mm

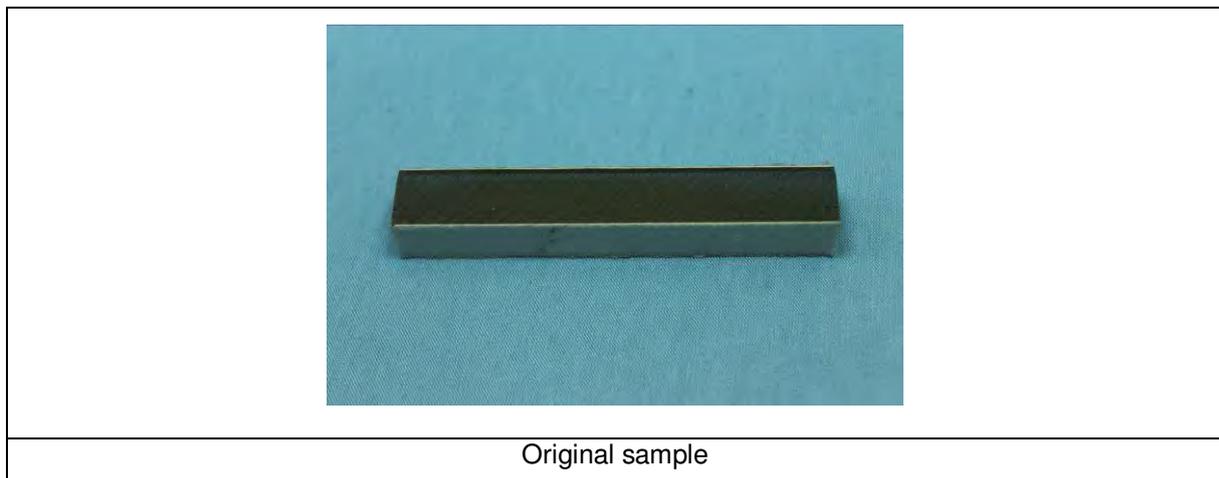
Lab Environmental Condition: 23±2°C, 50±5%RH

Test Result:

Test Item	Test Result
Flexural Strength	130 MPa
Flexural Elastic of Modulus	8020 MPa

Note: The protected film of test specimens was ripped off before test.

Test Photo:



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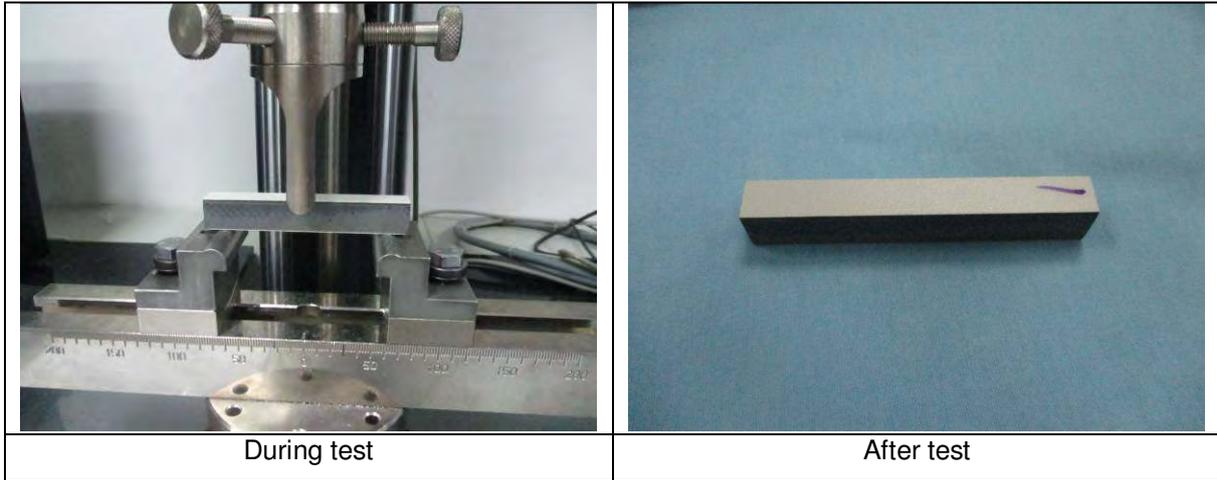
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Equipment Information:

Equipment	Model	Equipment No.	Calibration date	Next Calibration date
Universal Testing Machine	Z010	GZMR-PL-E038	2015-11-18	2016-11-17



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4. Test Item: Izod Notched Impact Strength

Sample Description: See photo

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

Test Condition:

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

Specimen thickness: 12.93 mm

The capacity of the pendulum: 1 J

Impact speed: 3.46 m/s

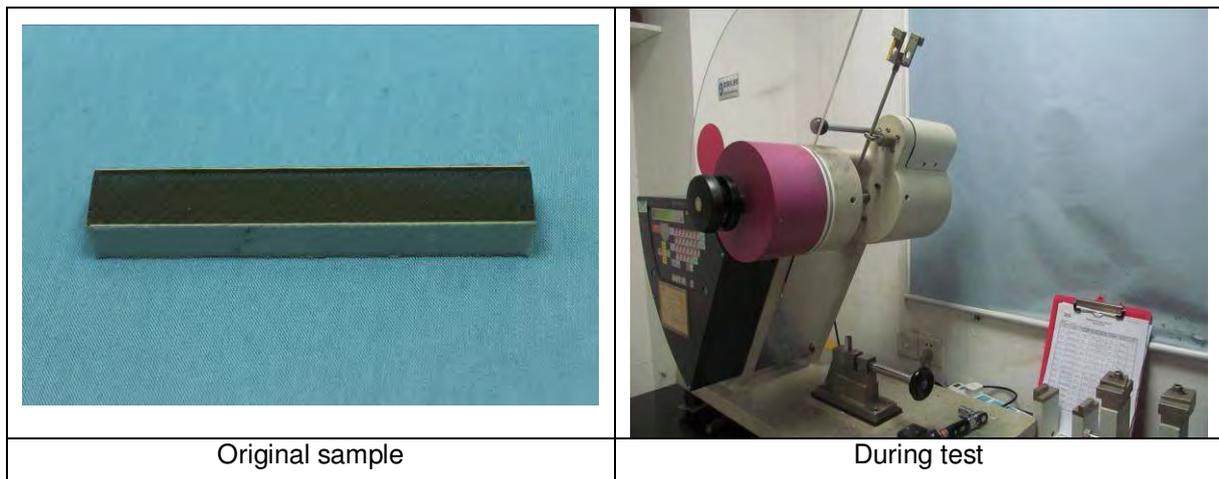
Lab Environmental Condition: 23±2°C, 50±5%RH

Test Result:

Test Item	Test Result
Izod Notched Impact Strength	8.2 kJ/m ²

Note: The protected film of test specimens was ripped off before test.

Test Photo:



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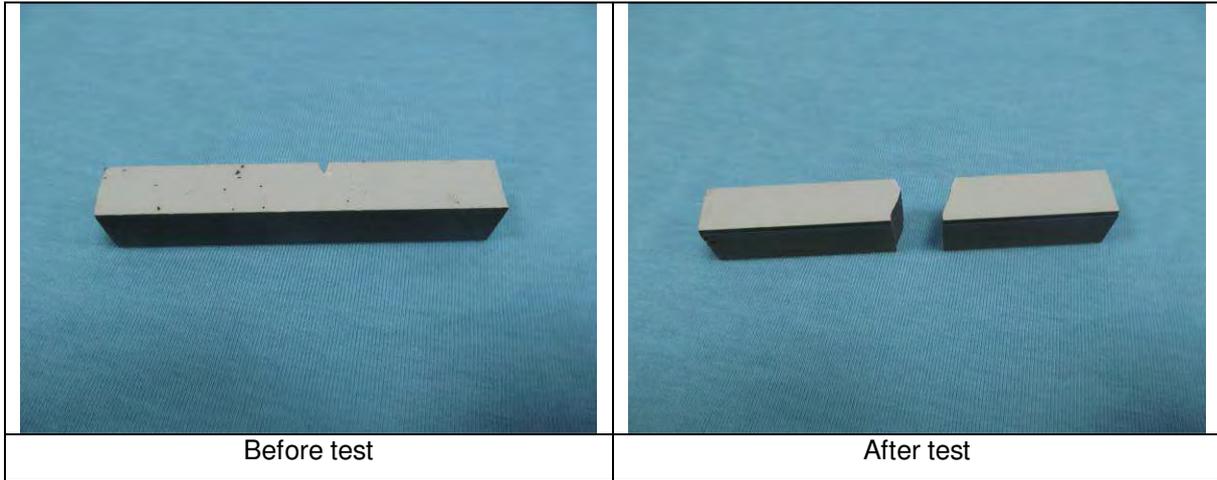
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Equipment	Model	Equipment No.	Calibration date	Next Calibration date
Impact Tester	6967	GZMR-PL-E008	2015-11-18	2016-11-17



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5. Test Item: Tensile Strength

Sample Description: See photo

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

Test Condition:

Specimen: Type 1B

Specimen thickness: 13.1 mm

Testing speed: 5 mm/min

Initial distance between grips: 100 mm

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

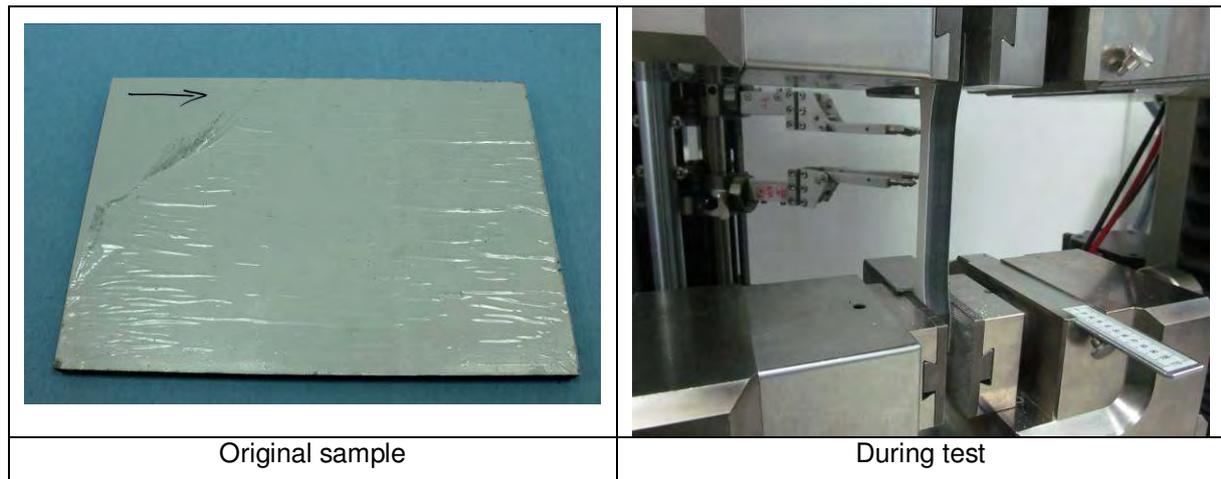
Test Result:

Test Item	Test Result
Tensile Strength	109 MPa

Note:

1. The protected film of test specimens was ripped off before test.
2. Test specimens were cut from the sample.

Test Photo:



Original sample

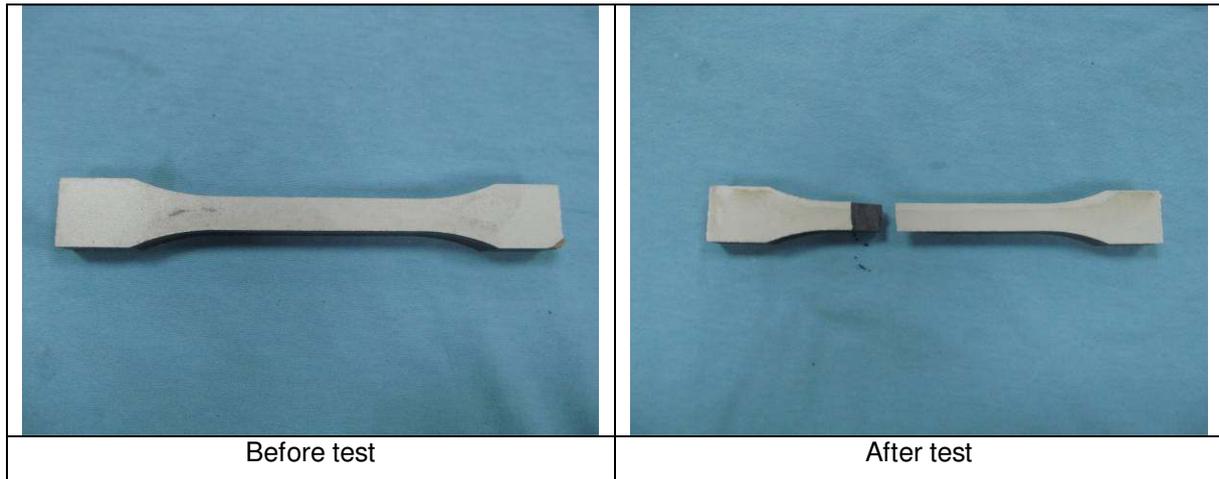
During test

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Universal Testing Machine	Z030	GZMR-PL-E140	2015-11-18	2016-11-17



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6. Test Item: Water Absorption

Sample Description: See photo

Test Method: ISO 62:2008 Method 1

Test Condition:

Specimen: 60 mm×60 mm×5.73 mm

Drying condition: 50±2°C, 24h

Immersion condition: 23±2°C, 24h

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

Test Result:

Test Item	Test Result
Water Absorption	0.74 %

Note:

1. Water Absorption, %=(Mass after immersion-Mass after drying and before immersion)/Mass after drying and before immersion×100
2. The protected film of test specimens was ripped off before test.



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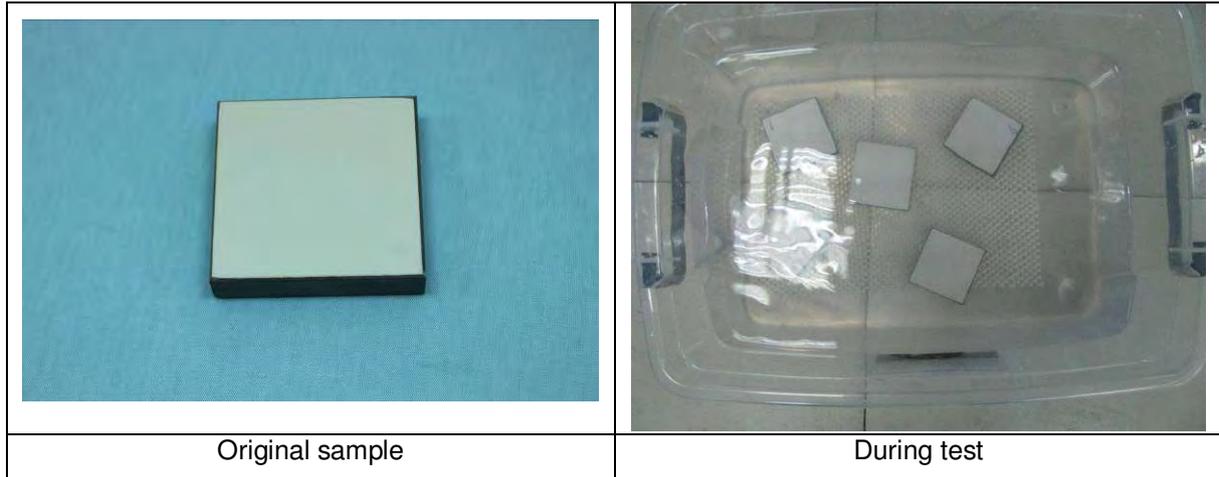
TEST REPORT

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Date : Dec 30, 2015

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Test Photo:



Equipment Information:

Equipment	Model	Equipment No.	Calibration date	Next Calibration date
Electron Balance	BS224S	GZMR-PL-E004-03	2015-02-11	2016-02-10
Oven	UFE600A0E3	GZMR-PL-E101	2015-11-18	2016-11-17

Appendix information:

The above tests were carried out by a SGS laboratory.

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



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