

TEST REPORT

No. : GZIN1807038061CM

Date : Aug 02, 2018

Page: 1 of 24

CUSTOMER NAME: GUANGZHOU XINGHE ALUMINUM COMPOSITE PANEL CO., LTD.
ADDRESS: MAKE INDUSTRIAL AREA, YUWOTOU, NANSHA DISTRICT,
GUANGZHOU CITY GUANGDONG PR., CHINA

Sample Name : Aluminum Composite Panel
Product Specification : 1220×2440×3mm, 1250×3200×3mm, 1500×3000×3mm,
1220×2440×4mm, 1250×3200×4mm, 1500×3000×4mm,
or customized solid color, metallic color, wooden color, marble color
Manufacturer : GUANGZHOU XINGHE ALUMINUM COMPOSITE PANEL 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.

Date of Receipt : Jul 18, 2018
Testing Start Date : Jul 18, 2018
Testing End Date : Aug 02, 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. GZ Branch Testing
Center

Salon

Salon Liu
Authorized signatory



SGS-CSTC Standards Technical Services Co., Ltd.
Guangzhou Branch Testing Center

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TEST REPORT

No. : GZIN1807038061CM

Date : Aug 02, 2018

Page: 2 of 24

Summary of Results:

No.	Test Item	Test Method	Result	Conclusion
1	Gloss	ASTM D523-14(2018)	42	/
2	Pencil Hardness	ASTM D3363-05(2011) ^{ε2}	H	/
3	Dry Adhesion	AAMA 2605-17a Section 8.4.1.1 & ASTM D3359-17	5B	/
4	Wet Adhesion	AAMA 2605-17a Section 8.4.1.3, Section 8.4.1.1 & ASTM D3359-17	5B	/
5	Boiling Water Adhesion	AAMA 2605-17a Section 8.4.1.2, Section 8.4.1.1 & ASTM D3359-17	5B	/
6	Muriatic Acid Resistance	AAMA 2605-17a Section 8.7.1	No blistering or other visual change	/
7	Window Cleaner Resistance	With reference to AAMA 2605-17a Section 8.7.5 and client's requirement	No blistering or other visible change, no removal of film	/
8	Mortar Resistance	AAMA 2605-17a Section 8.7.2	No loss of adhesion or any other visual change	/
9	Effect of Household Chemicals	With reference to ASTM D1308-02(2013) and client's requirement	No visual change	/
10	Abrasion Resistance	ASTM D968-17 Method A	84.0L/mil	/
11	Impact Resistance	ASTM D2794-93(2010)	90kg•cm	/



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TEST REPORT

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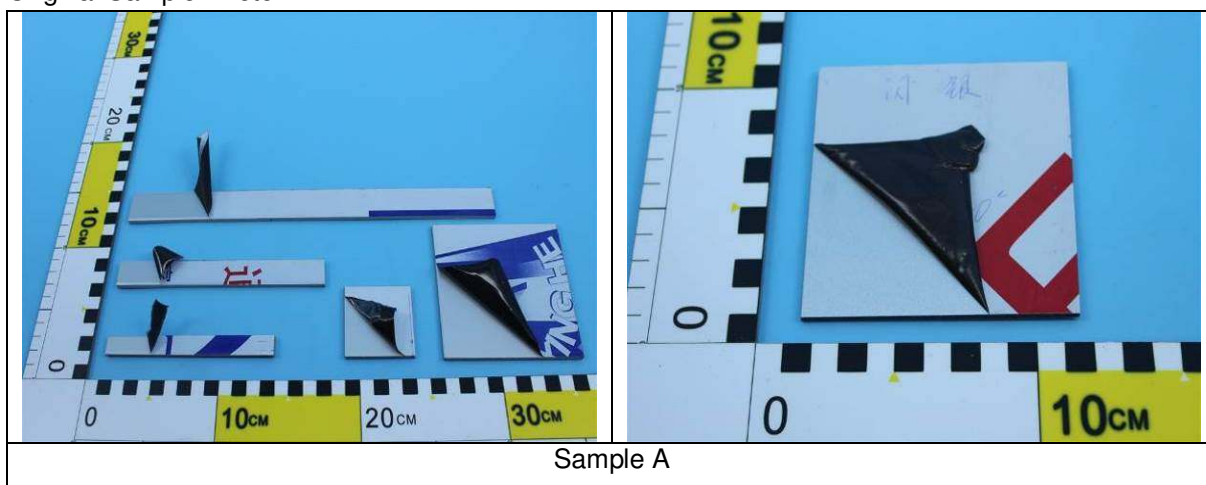
Date : Aug 02, 2018

Page: 3 of 24

No.	Test Item	Test Method	Result		Conclusion
12	Deflection Temperature under Load	With reference to ASTM D648-16 Method B and client's requirement	103.1°C		/
13	Flexural Test	ASTM D790-17 Procedure A	Flexural Strength	97.8MPa	/
			Flexural Modulus	16400MPa	
14	Mass per Unit Area	Provided by client	Sample A	6134g/m ²	/
			Sample B	4673g/m ²	
15	Peel Strength	ASTM D903-98(2017)	1.20kgf/mm		/
16	Shear Strength	ASTM D732-17	26.8 MPa		/
17	Tensile Test	ASTM D638-14	42.3MPa		/

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

Original Sample Photo:



Sample A



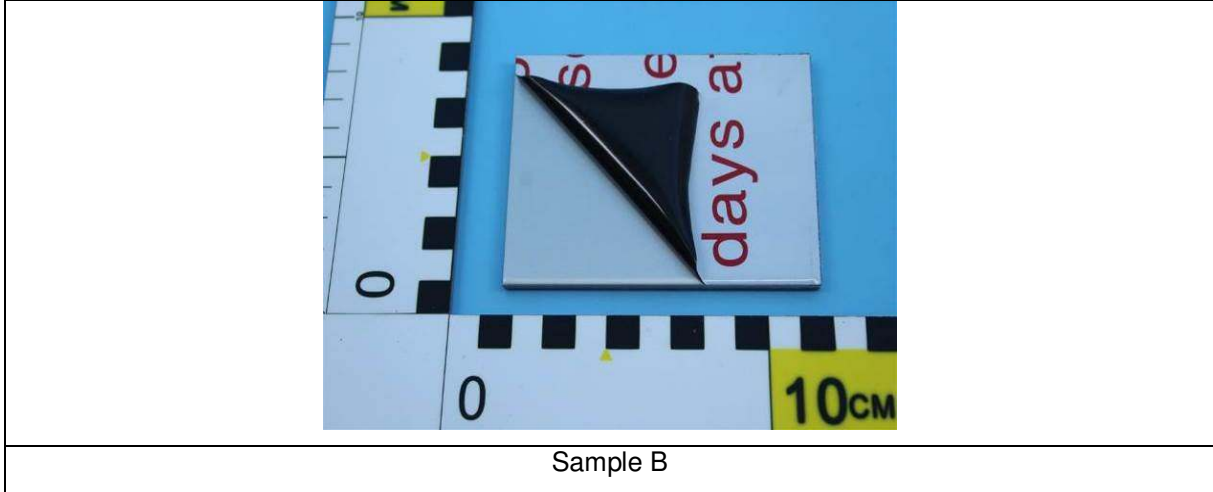
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TEST REPORT

No. : GZIN1807038061CM

Date : Aug 02, 2018

Page: 4 of 24



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TEST REPORT

No. : GZIN1807038061CM

Date : Aug 02, 2018

Page: 5 of 24

Test Item 1: Gloss

Sample Description: See photo

Test Method: ASTM 523-14(2018)

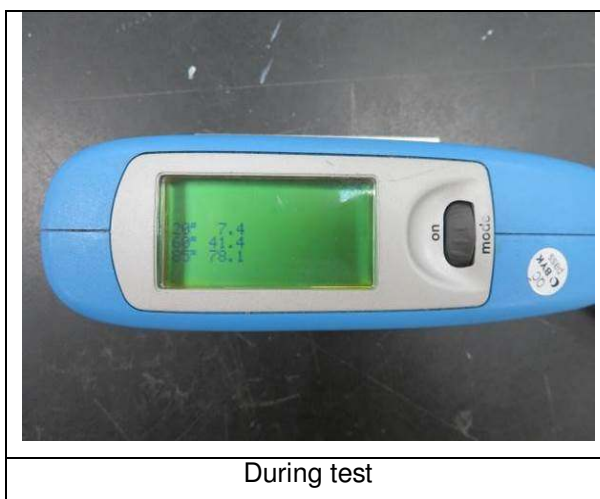
Test Condition:

Geometry: 60°

Test Result:

Sample	Gloss
A	42

Test Photo:



During test



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TEST REPORT

No. : GZIN1807038061CM

Date : Aug 02, 2018

Page: 6 of 24

Test Item 2: Pencil Hardness

Sample Description: See photo

Test Method: ASTM D3363-05(2011) ^{E2}

Test Condition:

Test Pencil: Mitsubishi® Uni

Test Result:

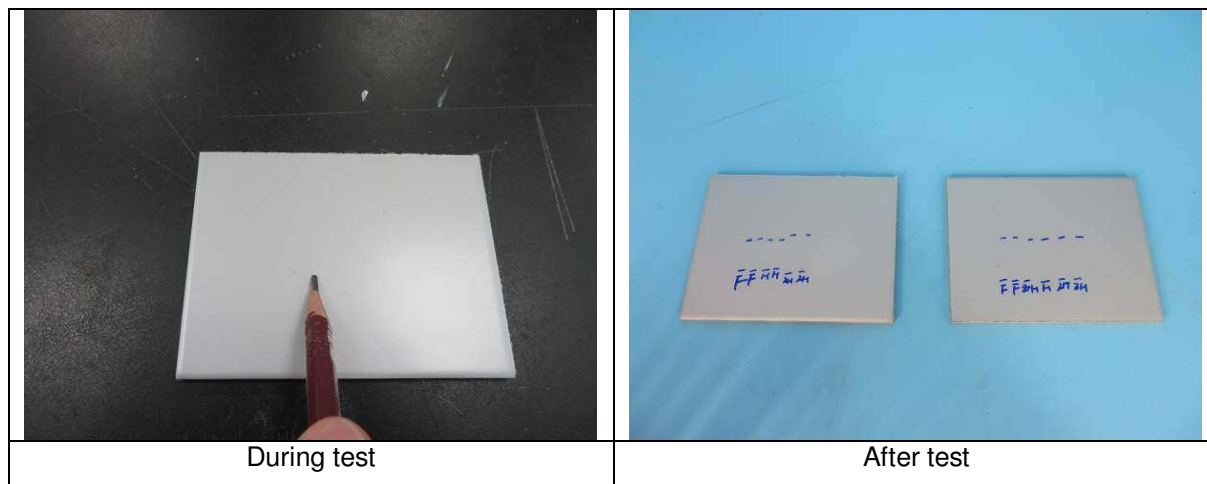
Sample	Scratch hardness
A	H

Note: According to ASTM D3363-05(2011) ^{E2}, 6H is the hardest and the grade 6B is the softest.

6B—5B—4B—3B—2B—B—HB—F—H—2H—3H—4H—5H—6H

Softer←-----→Harder

Test Photo:



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TEST REPORT

No. : GZIN1807038061CM

Date : Aug 02, 2018

Page: 7 of 24



After test-local part

Test Item 3: Adhesion Test of Coatings

Sample Description: See photo

Test Method: AAMA 2605-17a Section 8.4.1.1 & ASTM D3359-17

Test Condition:

Space: 1mm

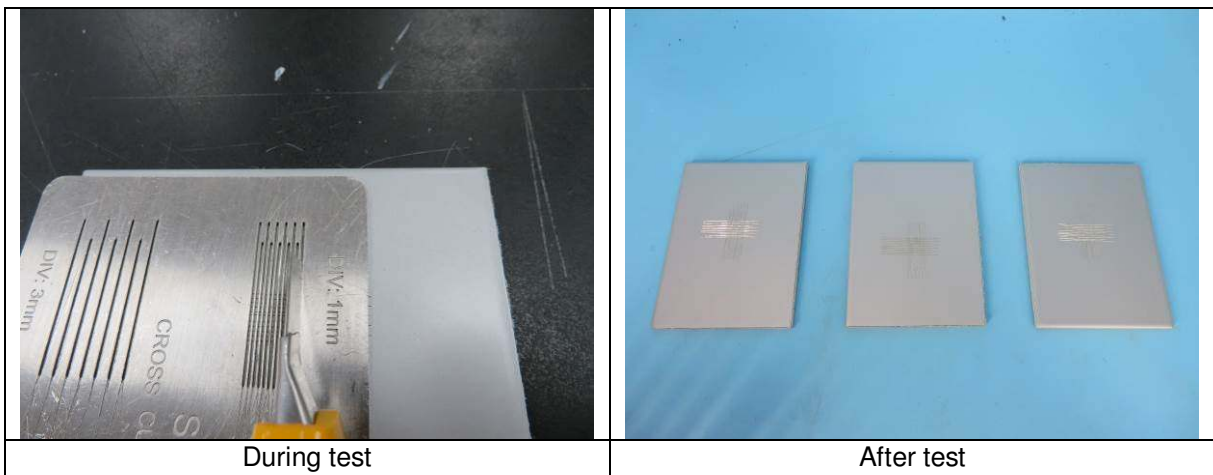
Tape: Elcometer 99

Test Result:

Sample	Test result
A	5B

Note: According to ASTM D3359-17 Method B, in the adhesion classification-- 5B is the best, 0B is the worst.

Test Photo:



During test

After test



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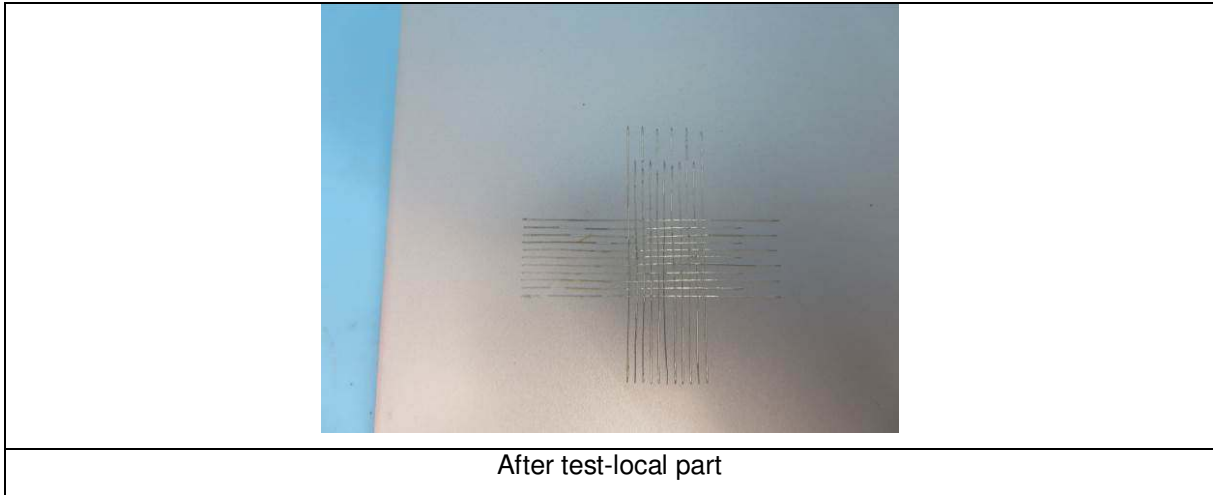
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TEST REPORT

No. : GZIN1807038061CM

Date : Aug 02, 2018

Page: 8 of 24



Test Item 4: Wet Adhesion

Sample Description: See photo

Test Method: AAMA 2605-17a Section 8.4.1.3, Section 8.4.1.1 & ASTM D3359-17

Test Condition:

Cut space: 1mm

Immersed in 38°C water for 24h

Tape: Elcometer 99

Test Result:

Sample	Test result
A	5B

Note: According to ASTM D3359-17 Method B, in the adhesion classification-- 5B is the best, 0B is the worst.



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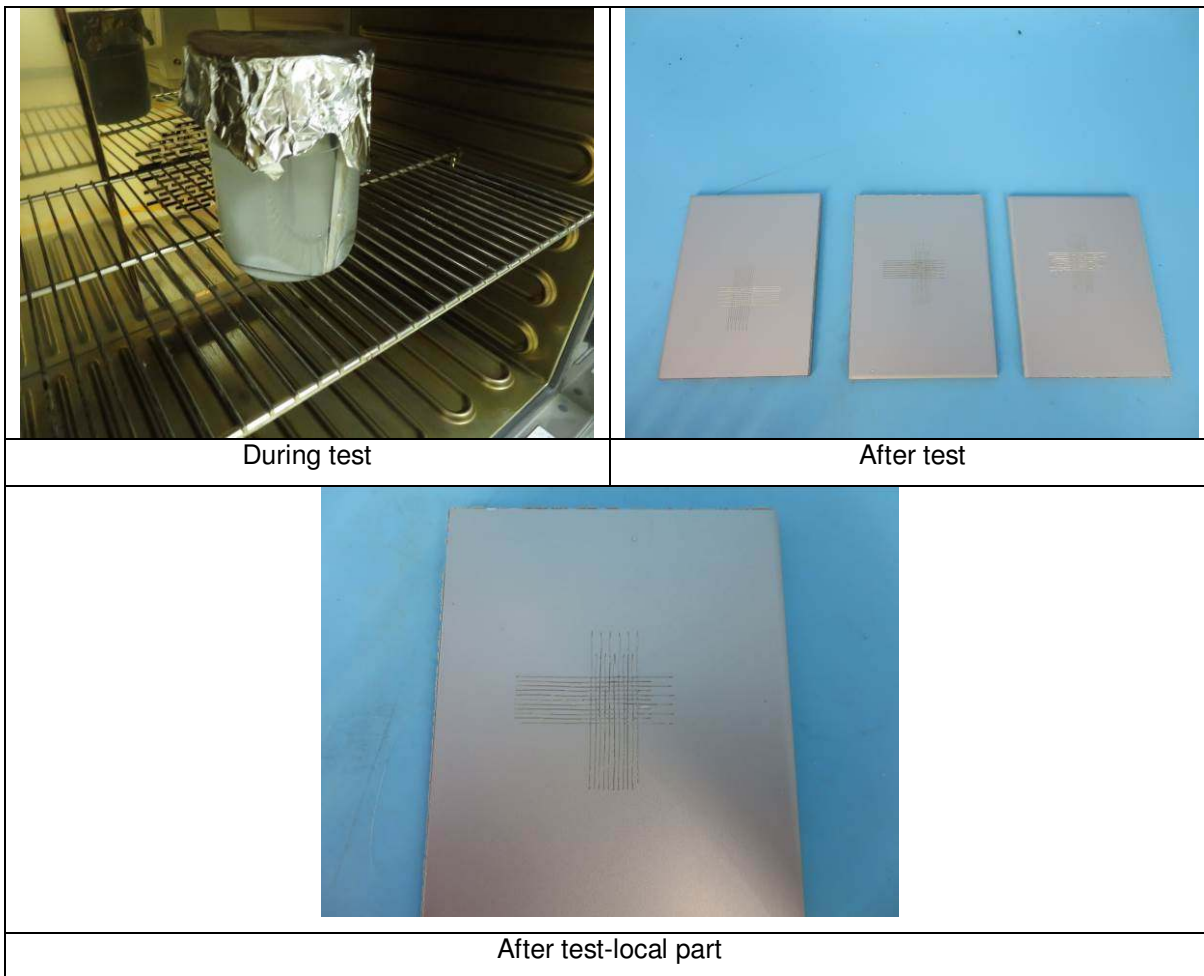
TEST REPORT

No. : GZIN1807038061CM

Date : Aug 02, 2018

Page: 9 of 24

Test Photo:



Test Item 5: Boiling Water Adhesion

Sample Description: See photo

Test Method: AAMA 2605-17a Section 8.4.1.2, Section 8.4.1.1 & ASTM D3359-17

Test Condition:

Cut space: 1mm

Immersed in boiling water for 20min

Tape: Elcometer 99



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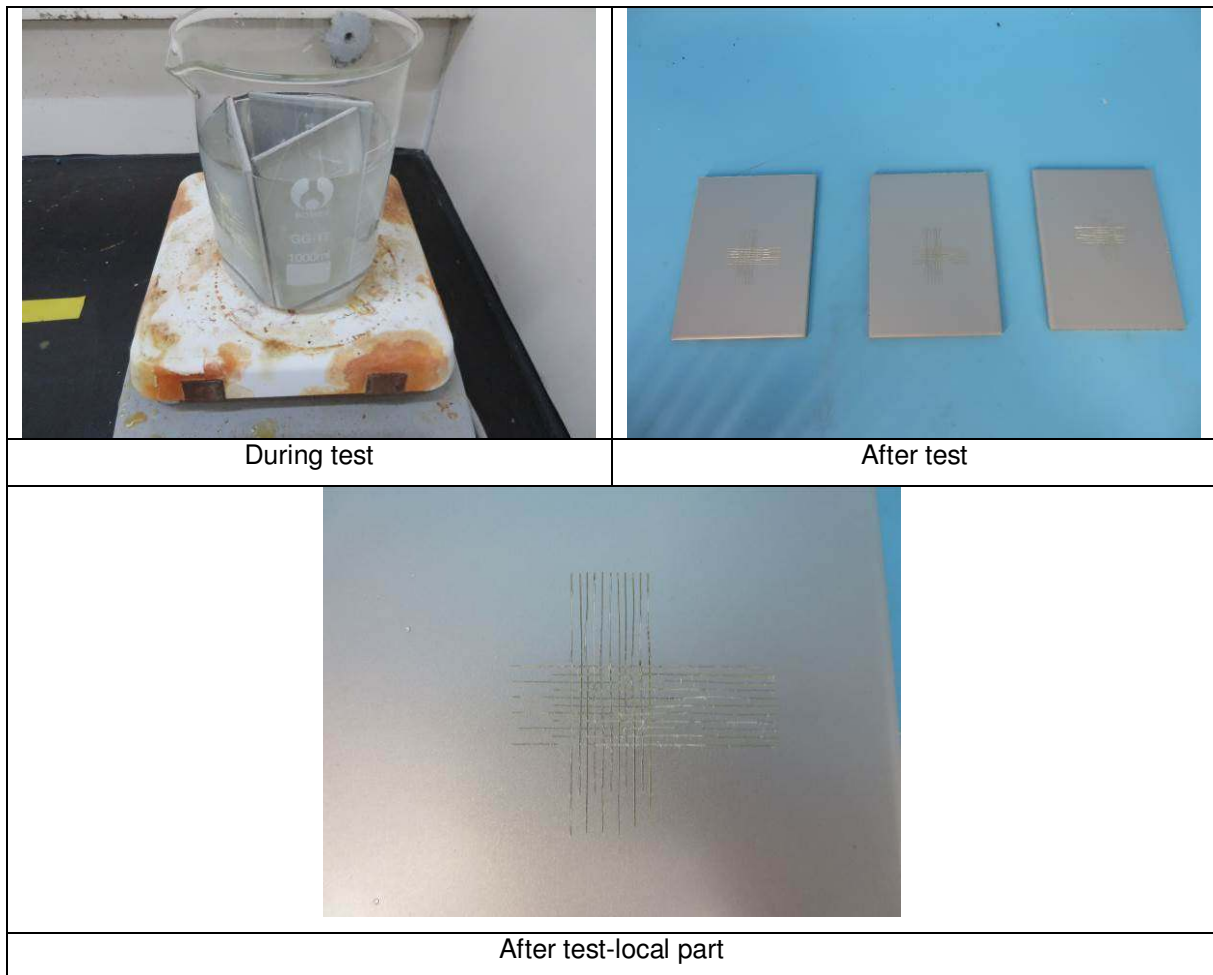
Page: 10 of 24

Test Result:

Sample	Test result
A	5B

Note: According to ASTM D3359-17 Method B, in the adhesion classification-- 5B is the best, 0B is the worst.

Test Photo:



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TEST REPORT

No. : GZIN1807038061CM

Date : Aug 02, 2018

Page: 11 of 24

Test Item 6: Muriatic Acid Resistance

Sample Description: See photo

Test Method: AAMA 2605-17a Section 8.7.1

Test Condition:

Medium: 10%(V/V) HCl

Method of contact: Spot method

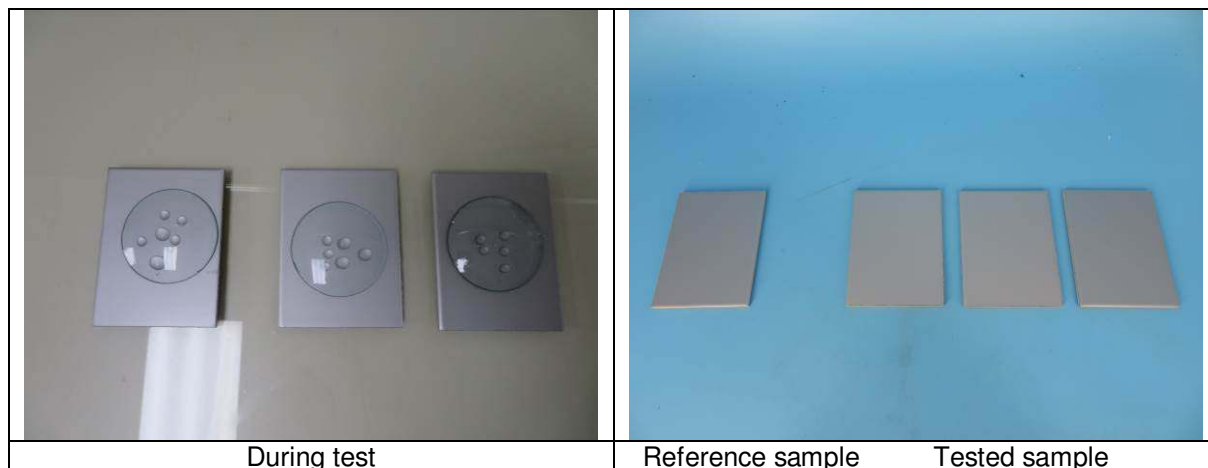
Temperature: Room temperature

Time of contact: 15min

Test Result:

Sample	Test Result
A	No blistering or other visual change

Test Photo:



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TEST REPORT

No. : GZIN1807038061CM

Date : Aug 02, 2018

Page: 12 of 24

Test Item 7: Window Cleaner Resistance

Sample Description: See photo

Test Method: AAMA 2605-17a Section 8.7.5

Test Condition:

Medium: Windex® Glass Cleaner with Ammonia-D

Method of contact: Spot method

Temperature: Room temperature

Time of contact: 24h

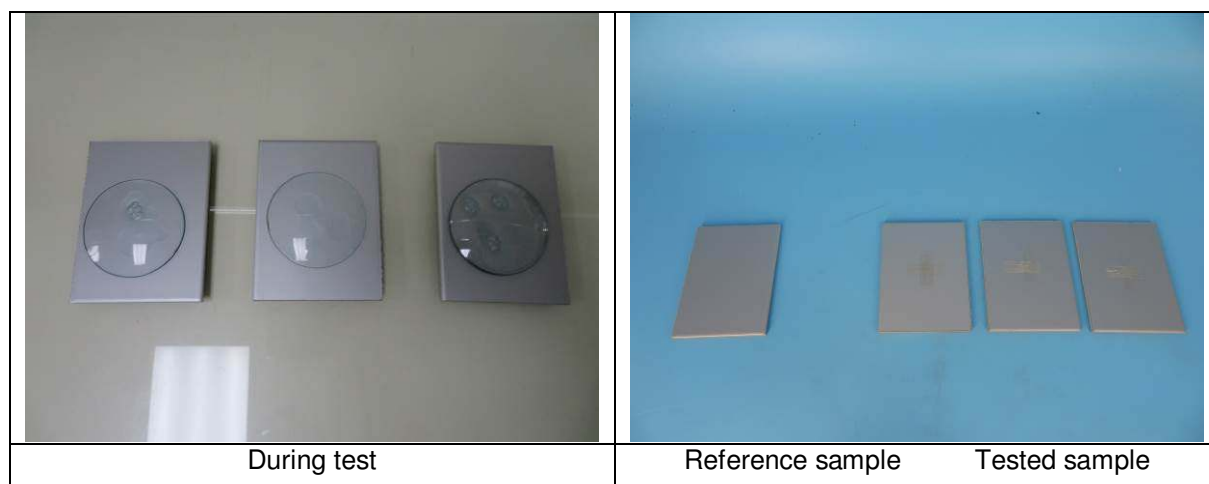
Cut space: 1mm

Tape: Elcometer 99

Test Result:

Sample	Test Result
A	No blistering or other visible change, no removal of film

Test Photo:



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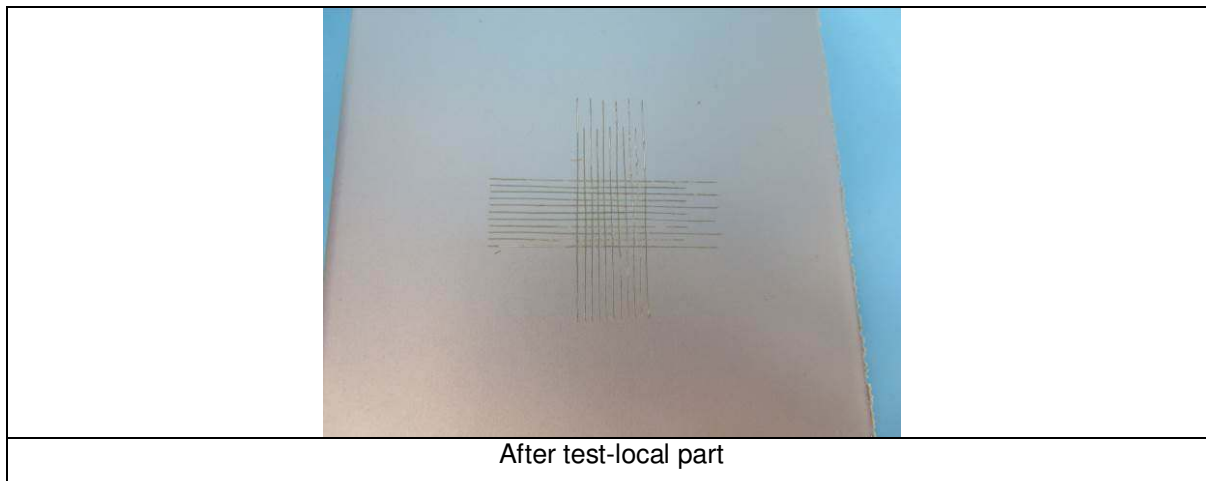
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TEST REPORT

No. : GZIN1807038061CM

Date : Aug 02, 2018

Page: 13 of 24



Test Item 8: Mortar Resistance

Sample Description: See photo

Test Method: AAMA 2605-17a Section 8.7.2

Test Condition:

Temperature: 38°C

Humidity: 100%RH

Exposure period: 24h

Test Result:

Sample	Test Result
A	No loss of adhesion or any other visual change

Note: The mortar composition is as follows:

Building lime: 75g

Dry sand: 225g

Water: 100g



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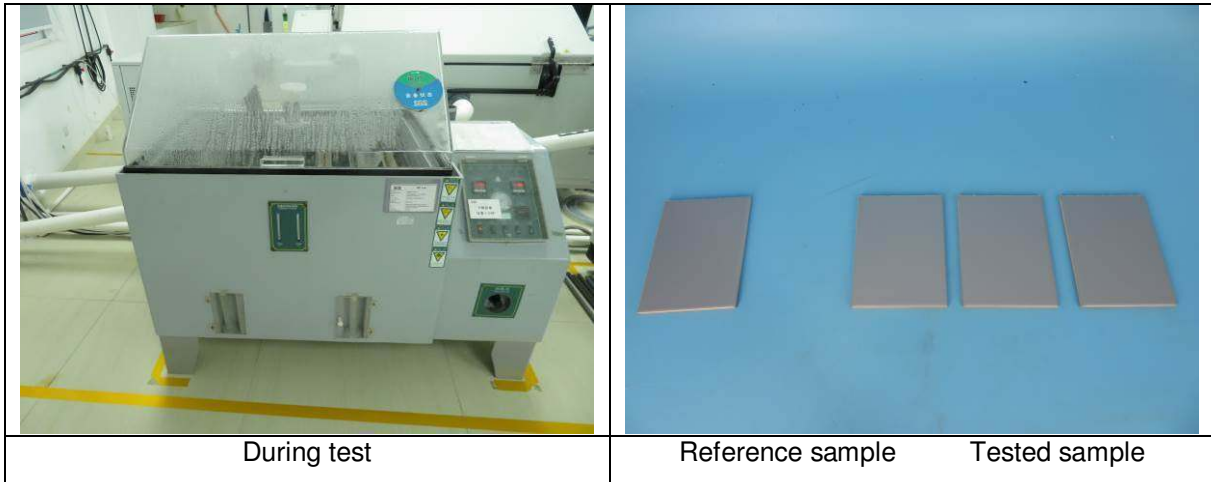
TEST REPORT

No. : GZIN1807038061CM

Date : Aug 02, 2018

Page: 14 of 24

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TEST REPORT

No. : GZIN1807038061CM

Date : Aug 02, 2018

Page: 15 of 24

Test Item 9: Effect of Household Chemicals

Sample Description: See photo

Test Method: With reference to ASTM D1308-02(2013) and client's requirement

Test Condition:

Medium: Acetone(AR)

Method of contact: Spot method

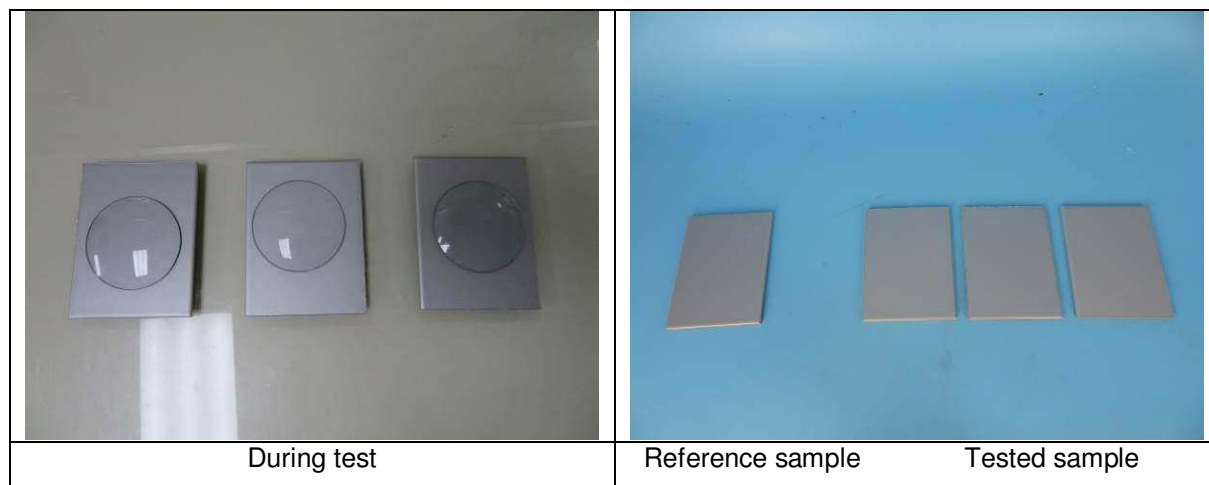
Temperature: Room temperature

Time of contact: 24h

Test Result:

Sample	Test Result
A	No visual change

Test Photo:



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TEST REPORT

No. : GZIN1807038061CM

Date : Aug 02, 2018

Page: 16 of 24

Test Item 10: Abrasion Resistance

Sample Description: See photo

Test Method: ASTM D968-17 Method A

Test Condition:

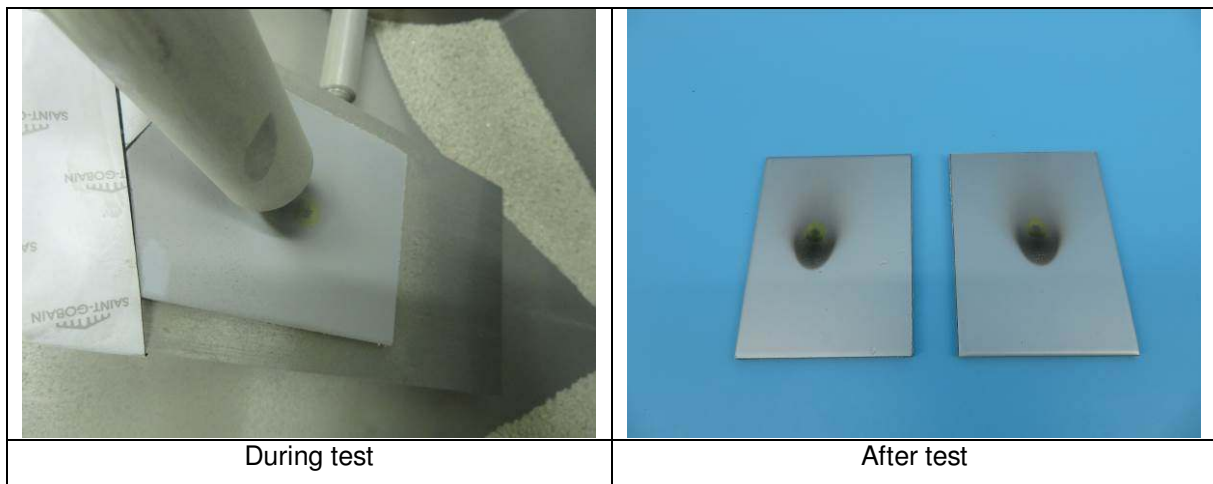
Rate of flow: 2L/ (21-23.5)s

Abrasive: Silica sand

Test Result:

Sample	Abrasion coefficient value
A	84.0L/mil

Test Photo:



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TEST REPORT

No. : GZIN1807038061CM

Date : Aug 02, 2018

Page: 17 of 24

Test Item 11: Impact Resistance

Sample Description: See photo

Test Method: ASTM D2794-93(2010)

Test Condition:

Coating thickness: 30.2µm

Sample thickness: 4.26mm

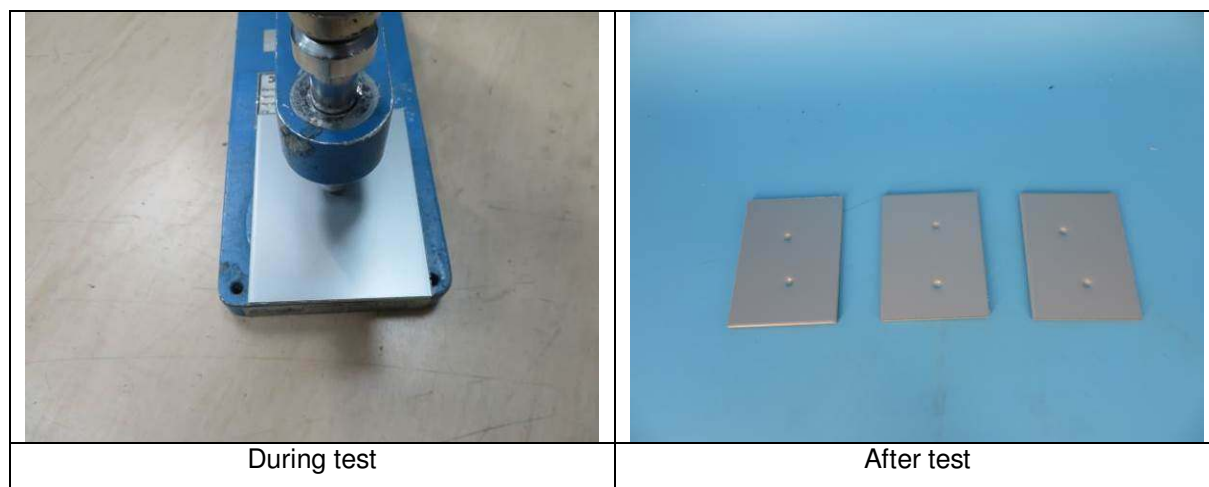
Diameter of the punch: 15.9mm

Impact model: intrusion

Test Result:

Sample	Impact failure end point
A	90kg•cm

Test Photo:



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TEST REPORT

No. : GZIN1807038061CM

Date : Aug 02, 2018

Page: 18 of 24

Test Item 12: Deflection Temperature under Load

Sample Description: See photo

Test Method: With reference to ASTM D648-16 Method B and client's requirement

Test Condition:

Specimen: 128mm × 13.26mm × 4.25mm

Heat-transfer media: Silicone oil

Rate of temperature: 120°C/h

Load: 1.82MPa

Span: 100mm

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

Test Result:

Sample	Test Item	Test Result
A	Deflection Temperature under Load	103.1 °C

Note:

1. The surface which stuck with protected film was faced to the loading.
2. The protected film of test specimens was ripped off before test.

Test Photo:



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TEST REPORT

No. : GZIN1807038061CM

Date : Aug 02, 2018

Page: 19 of 24

Test Item 13: Flexural Test

Sample Description: See photo

Test Method: ASTM D790-17 Procedure A

Test Condition:

Specimen: 127mm×13.57mm×4.23mm

Testing speed: 1.8mm/min

Span: 67mm

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

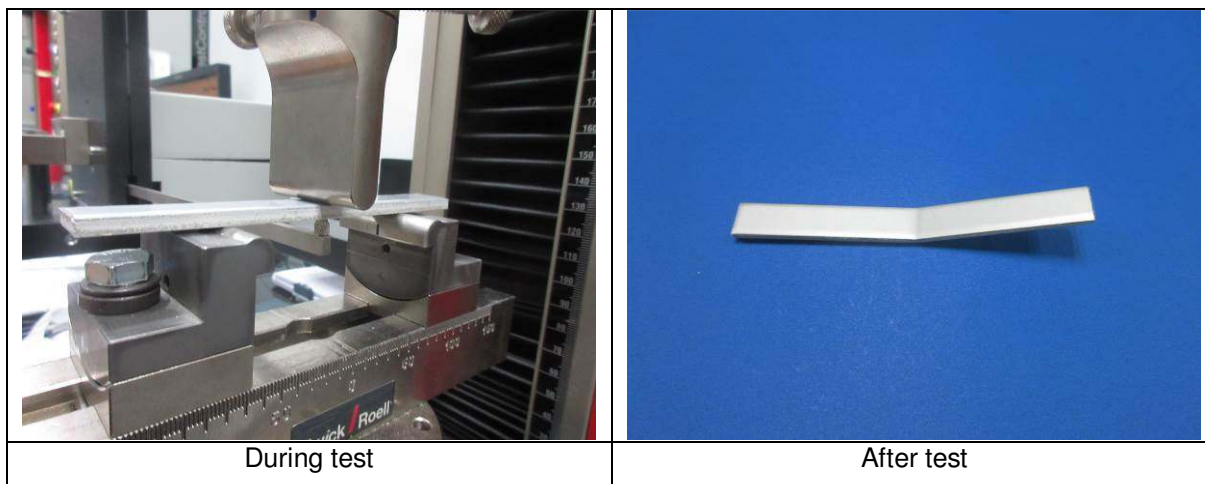
Test Result:

Sample	Test Item	Test Result
A	Flexural Strength	97.8MPa
	Flexural Modulus	16400MPa

Note:

1. The surface which stuck with protected film was faced to the loading.
2. The protected film of test specimens was ripped off before test.

Test Photo:



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TEST REPORT

No. : GZIN1807038061CM

Date : Aug 02, 2018

Page: 20 of 24

Test Item 14: Mass per Unit Area

Sample Description: See photo

Test Method: Provided by client

Test Condition:

Specimen: 101mm × 101mm

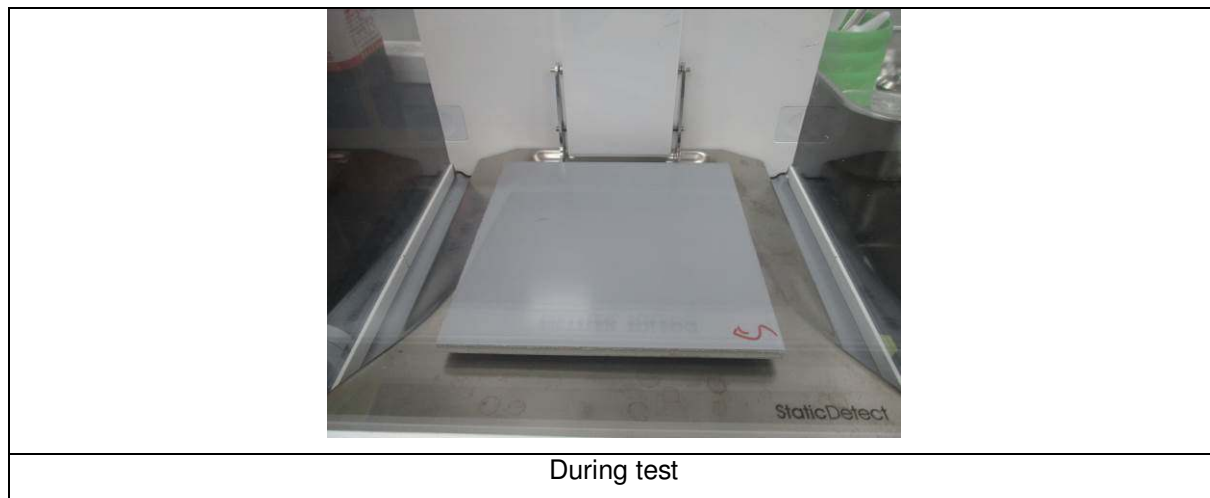
Lab Environmental Condition: (23±2)°C, (50±5)%RH

Test Result:

Test Item	Test Result	
Mass per Unit Area	Sample A	6134g/m ²
	Sample B	4673g/m ²

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

Test Photo:



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TEST REPORT

No. : GZIN1807038061CM

Date : Aug 02, 2018

Page: 21 of 24

Test Item 15: Peel Strength

Sample Description: See photo

Test Method: ASTM D903-98(2017)

Test Condition:

Specimen width: 25 mm

Separation speed: 152.4 mm/min

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

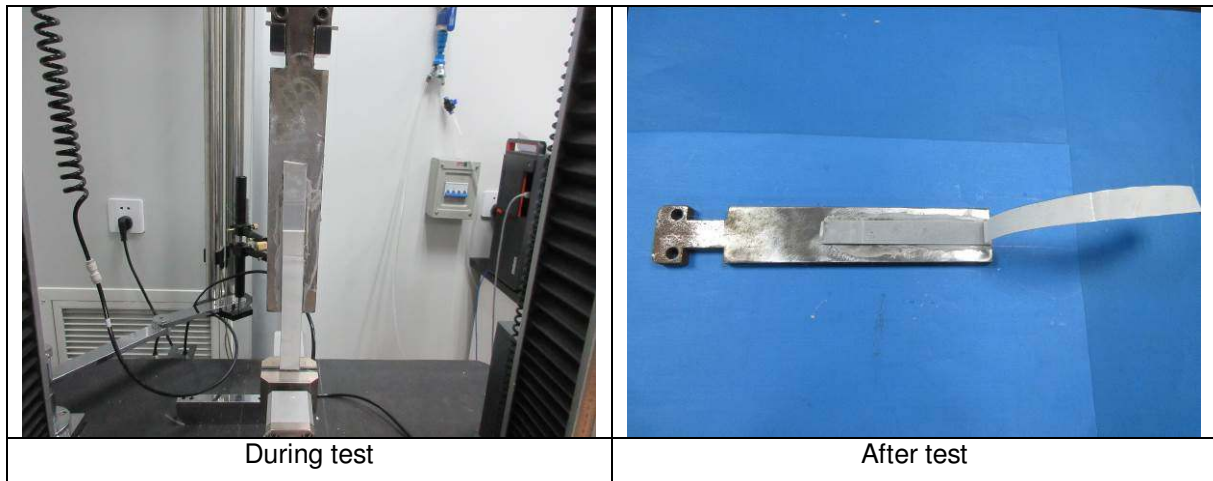
Test Result:

Sample	Test Item	Test Result
A	Peel Strength	1.20kgf/mm

Note:

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

Test Photo:



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TEST REPORT

No. : GZIN1807038061CM

Date : Aug 02, 2018

Page: 22 of 24

Test Item 16: Shear Strength

Sample Description: See photo

Test Method: ASTM D732-17

Test Condition:

Specimen thickness: 4.23mm

Punch diameter: 25.0mm

Testing speed: 1.3mm/min

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

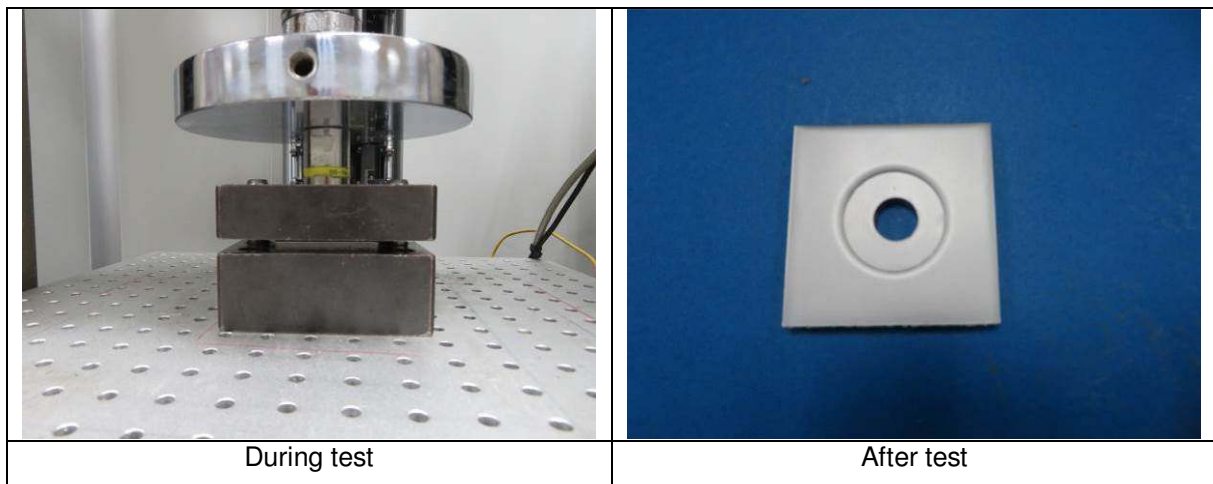
Test Result:

Sample	Test Item	Test Result
A	Shear Strength	26.8 MPa

Note:

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

Test Photo:



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TEST REPORT

No. : GZIN1807038061CM

Date : Aug 02, 2018

Page: 23 of 24

Test Item 17: Tensile Test

Sample Description: See photo

Test Method: ASTM D638-14

Test Condition:

- Specimen: Dumbbell type
- Specimen thickness: 4.23 mm
- Specimen width at narrow portion: 12.97mm
- Testing speed: 5 mm/min
- Distance between grips: 115 mm

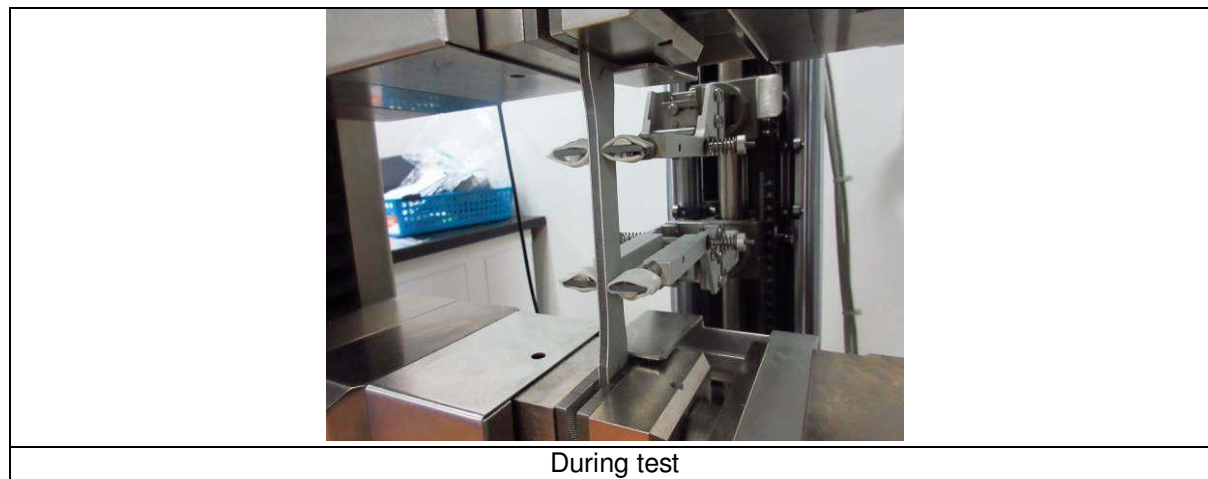
Lab Environmental Condition: 23 ± 2 °C, 50 ± 5 % RH

Test Result:

Sample	Test Item	Test Result
A	Tensile Strength	42.3MPa

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

Test Photo:



During test



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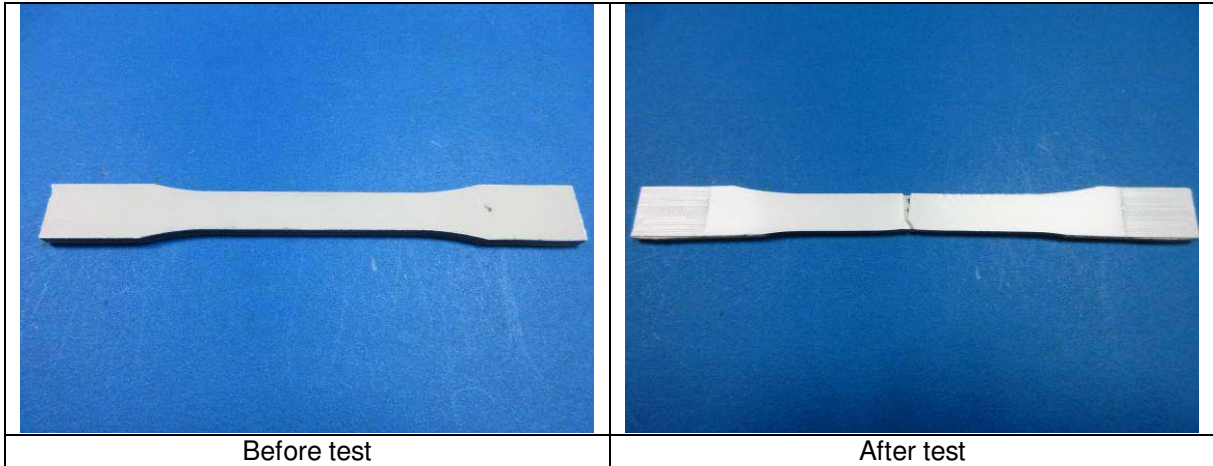
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Date : Aug 02, 2018

Page: 24 of 24



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Guangzhou Branch Testing Leave Commercial Construction Material Laboratory

198 Kezhu Road, Sciencetech Park, Economic & Technical Development District, Guangzhou, China. 510663 t (86-20) 82155555 f (86-20) 82075080 www.sgs.com.cn
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