

TEST REPORT

No. : SHIN1701001596PS

Date : Feb 24, 2017

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CUSTOMER NAME: TAIZHOU BAIYUN JIXIANG DECORATIVE MATERIAL CO., LTD
ADDRESS: NO. 1 BRANCH, JIAOJIANG FARM, TAIZHOU, ZHEJIANG PROVINCE,
CHINA

Sample Name : aluminum composite panel

Manufacturer : Taizhou Baiyun Jixiang Decorative 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.

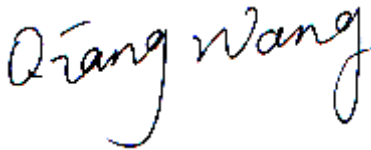
Date of Receipt : Jan 10, 2017

Testing Start Date : Jan 10, 2017

Testing End Date : Feb 24, 2017

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 (Shanghai) Co., Ltd.



Qiang Wang
Authorized signatory



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Original Sample Photo:



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1. Test Item: Adhesion Test of Coating

Sample Description: Grey panel

Test Method: ASTM D3359-09^{e2} Method B

Test Condition:

Space: 1mm

Tape: Elcometer[®]99

Test Result:

Sample	Adhesion classification(See note)
1	5B

Note: According to ASTM D3359--09^{e2} Method B, in the adhesion classification-- 5B is the best, 0B is the worst.



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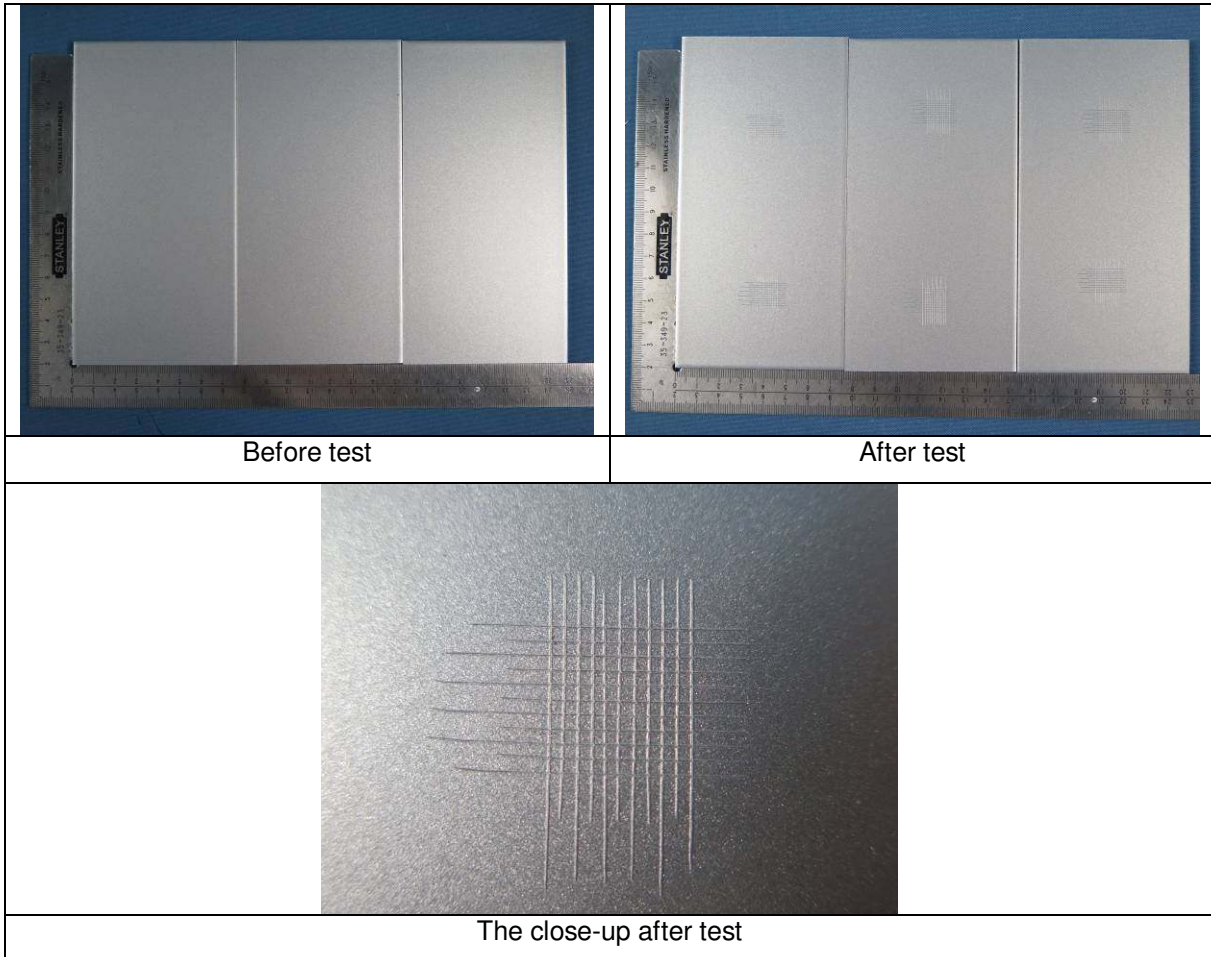
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2. Test Item: Coating flexibility

Sample Description: Grey panel

Test Method: ASTM D522/D522M-13 Method B and client's requirement

Test Condition:

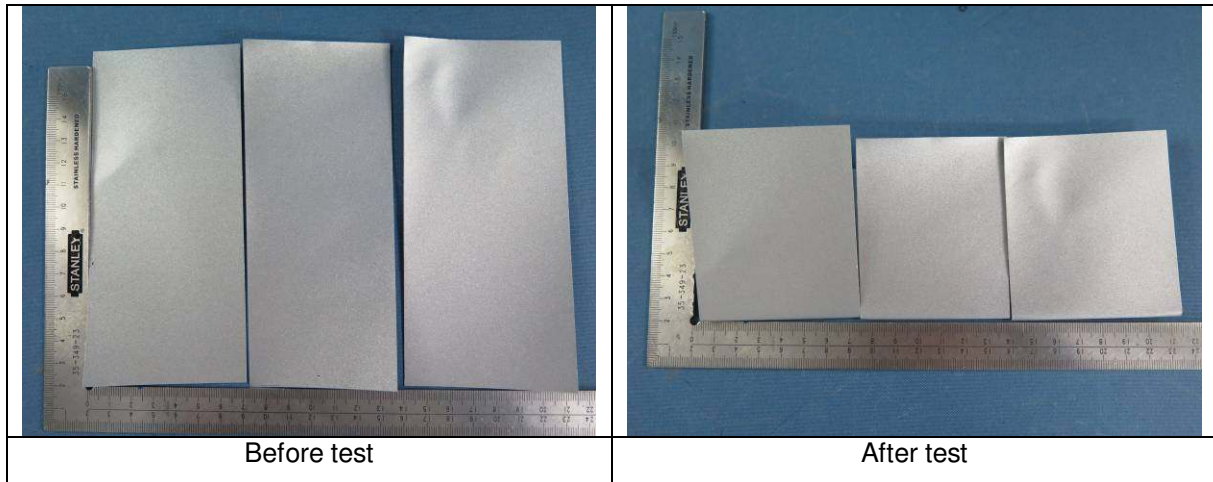
Sample thickness: 0.3mm

Mandrel dimensions: 2.0 mm

Test Result:

Sample	Result
1	No visible crack.

Test Photo:



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3. Test Item: Detergent Resistance

Sample Description: Grey panel

Test Method: ASTM D2248-01a(2013)

Test Condition:

Immersen the sample in 1%(m/m) solution of detergent at 74°C for 24h

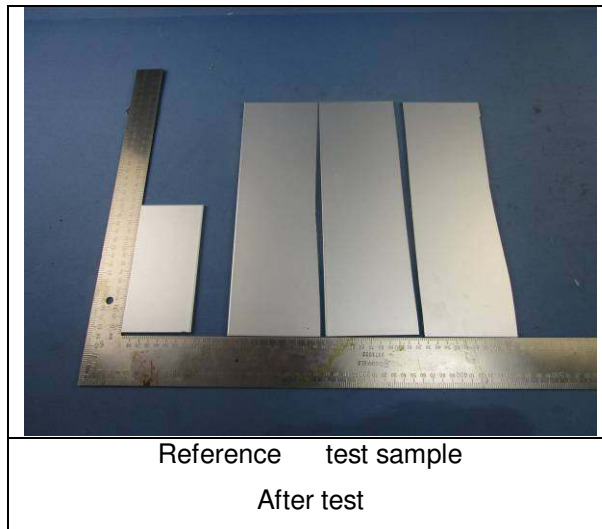
Lab Environmental Condition: 23±2°C, 50±5%RH

Test Result:

Test Item	Test Result
Detergent Resistance	No visible change

Note: Test specimens were cut from the sample.

Test Photo:



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4. Test Item: Flexural Test

Sample Description: Grey panel

Test Method: ASTM D790-15^{E2} Procedure A

Test Condition:

Specimen: 127 mm×13.196 mm×3.914 mm

Testing speed: 1.7 mm/min

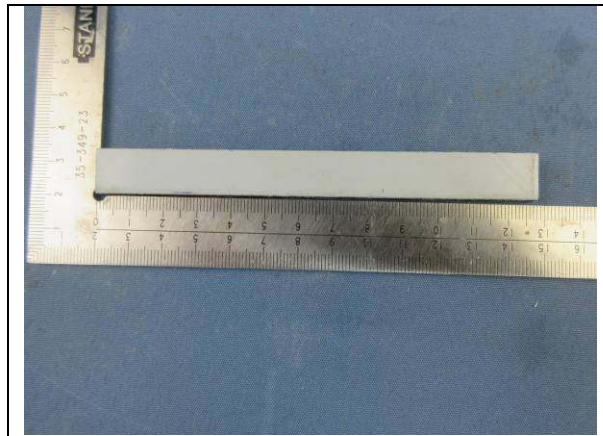
Span: 64 mm

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

Test Result:

Test Item	Test Result
Flexural Strength	108 MPa
Flexural Modulus	15.7 GPa

Sample Photo:



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5. Test Item: Gloss

Sample Description: Grey panel

Test Method: ASTM D523-14

Test Condition:

Geometry: 60°

Test Result:

Sample	Result
1	40.3

Sample Photo:



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6. Test Item: Impact Resistance

Sample Description: Grey panel

Test Method: ASTM D2794-93(2010) and client's requirement

Test Condition:

Sample thickness: 3.9mm

Diameter of the punch: 15.9mm

Diameter of panel support: 16.3mm

Impact model: intrusion

Test Result:

Sample	Impact failure end point
1	> 160 lb•inch



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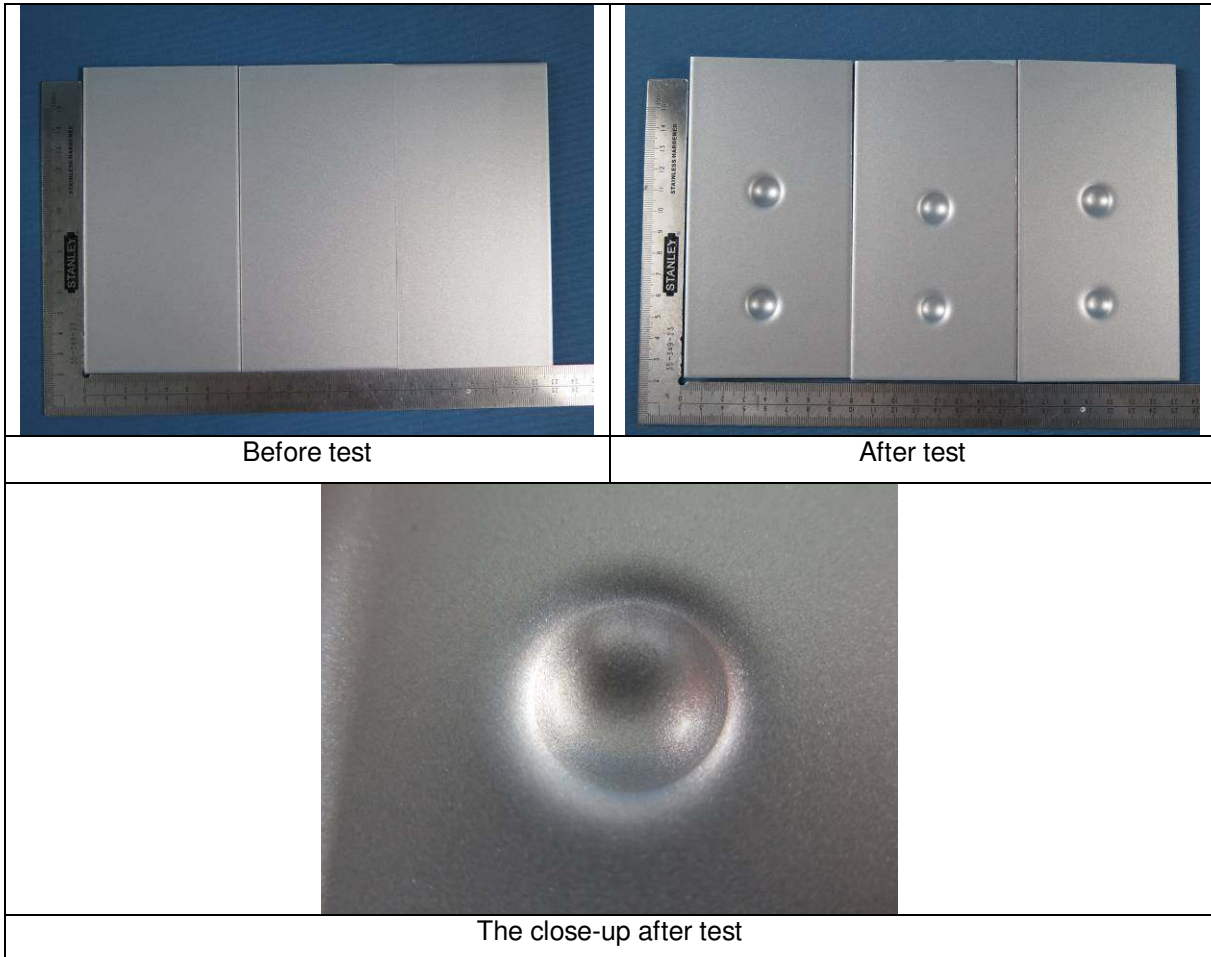
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7. Test Item: Peel Strength

Sample Description: Grey panel

Test Method: ASTM D903-98(2010)

Test Condition:

Specimen width: 25.68 mm

Separation speed: 300 mm/min

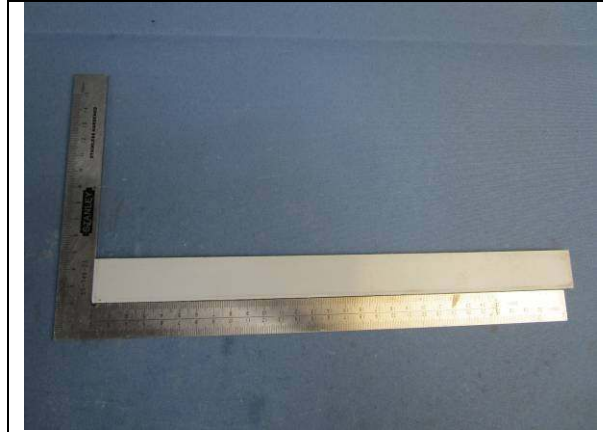
Lab Environmental Condition: 23 ± 2 °C , 50 ± 5 % RH

Test Result:

Test Item	Test Result
Peel Strength	0.649 kgf/mm

Note: Test specimens were cut from sample.

Sample Photo:



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8. Test Item: Pencil Hardness

Sample Description: Grey panel

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

Test Condition:

Test Pencil: Mitsubishi® Uni

Test Result:

Sample	Scratch hardness
1	2H

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—7H—8H—9H

Softer----->Harder



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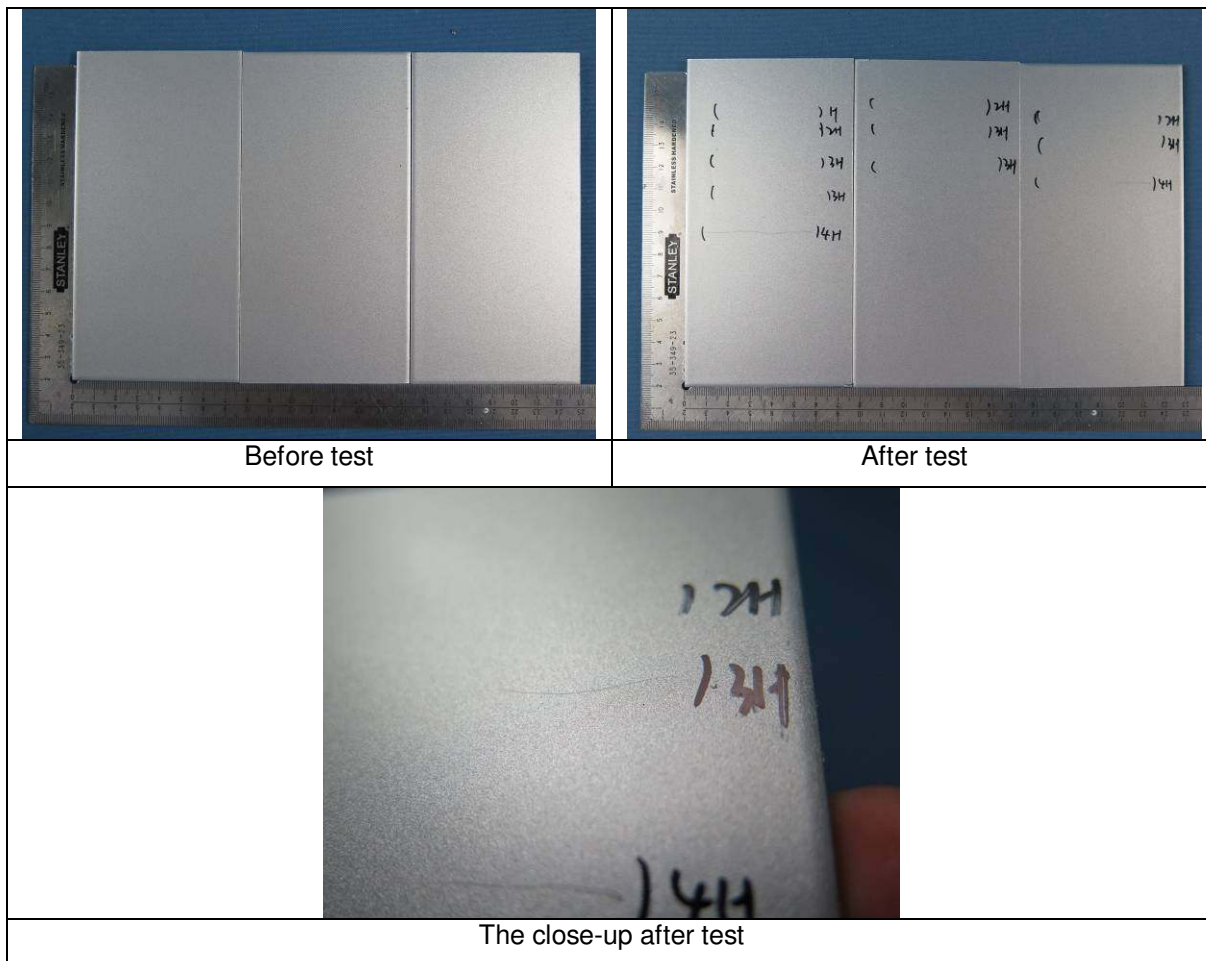
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9. Test Item: Shear Strength

Sample Description: Grey panel

Test Method: ASTM D732-10

Test Condition:

Specimen thickness: 4.01 mm

Punch diameter: 25.53 mm

Testing speed: 1.25 mm/min

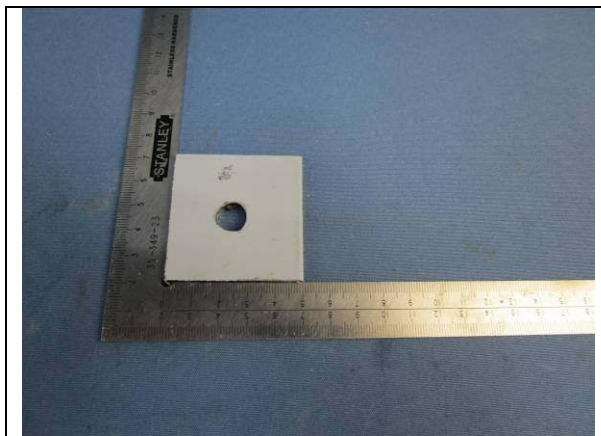
Lab Environmental Condition: 23±2°C, 50±5%RH

Test Result:

Test Item	Test Result
Shear Strength	26.6 MPa

Note: Test specimens were cut from sample.

Sample Photo:



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10. Test Item: Tensile Test

Sample Description: Grey panel

Test Method: ASTM D638-14

Test Condition:

Specimen thickness: 3.895 mm

Specimen width: 19.688 mm

Testing speed: 5 mm/min

Distance between grips: 65 mm

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

Test Result:

Test Item	Test Result
Tensile Strength	48.2 MPa
Tensile Stress at Yield	48.2 MPa

Sample Photo:



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11. Test Item: Weight per Unit Area

Sample Description: Grey panel

Test Method: Provided by client

Test Condition:

Specimen: 50.22 mm×49.93 mm

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

Test Result:

Test Item	Test Result
Weight per Unit Area	5.52 kg/m ²

Note: Test specimens were cut from sample.

12. Test Item: Falling Sand Abrasion

Sample Description: Metal panel with coating

Test Method: ASTM D968-15 Method A

Test Conditions:

Litres of abrasive: 88L

Coating thickness: 1.07mil

Test Result:

Sample	Abrasion resistance
A	82.2 L/mil



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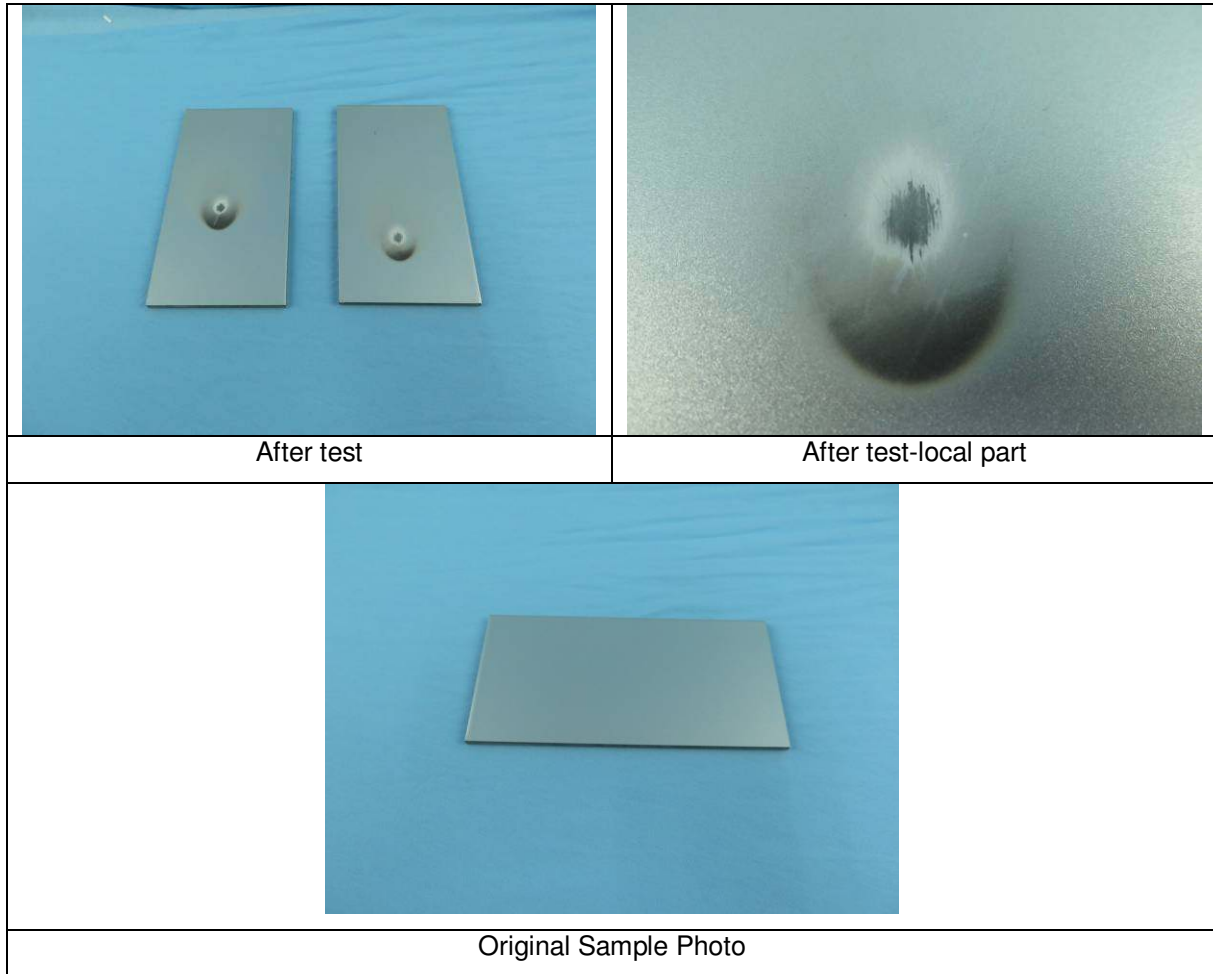
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Test Photo:



Equipment Information:

Equipment	Model	Equipment No.	Calibration date	Next Calibration date
Falling Sand Abrasion Tester	TG-8310-AT	GZMR-AG-E140	2016-09-13	2017-09-12
Digital Coating Thickness Gauge	FNbasic	GZMR-AG-E170	2016-03-07	2017-03-06



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13. Test Item: Chalking Test

Sample Description: Metal product with coating

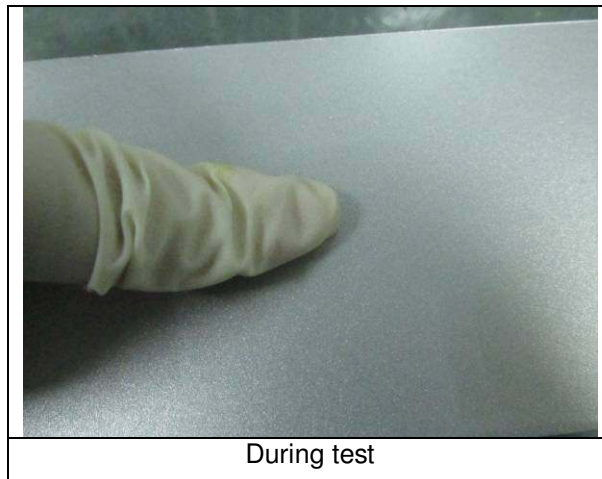
Test Method: ASTM D4214-07

Test Result:

Sample	Test result
A	No chalking

Note: The protected film was ripped off before test.

Test Photo:



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14. Test Item: Muriatic Acid Resistance

Sample Description: Metal product with coating

Test Method: AAMA 2604-13 Section 8.7.1

Test Condition:

Medium: 10 % (V/V) HCl (AR)

Method of contact: Spot method

Temperature: Room temperature

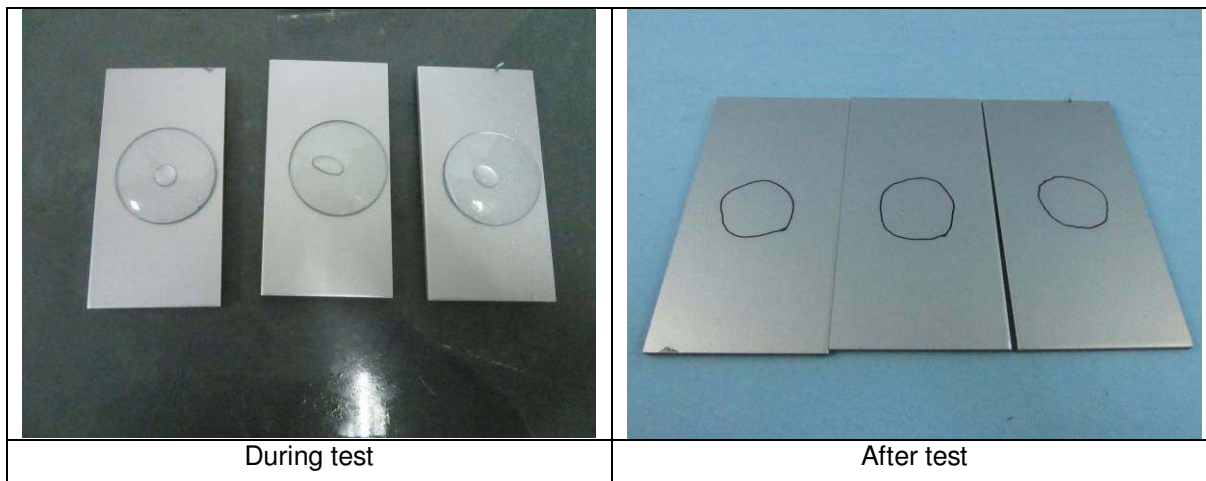
Time of contact: 15min

Test Result:

Sample	Test Result
A	No blistering or other visual change

Note: The protected film was ripped off before test.

Test Photo:



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15. Test Item: Mortar Resistance

Sample Description: Metal product with coating

Test Method: AAMA 2604-13 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:

1. The mortar composition is as follows:

Building lime: 75g

Dry sand: 225g

Water: 100g

2. The protected film was ripped off before test.

Test Photo:



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16. Test Item: Nitric Acid Resistance

Sample Description: Metal product with coating

Test Method: AAMA 2604-13 Section 8.7.3 & ASTM D2244-11

Test Condition:

Medium: 70 % (m/m) Nitric acid (AR),

Temperature: Room temperature

Time of contact: 30min

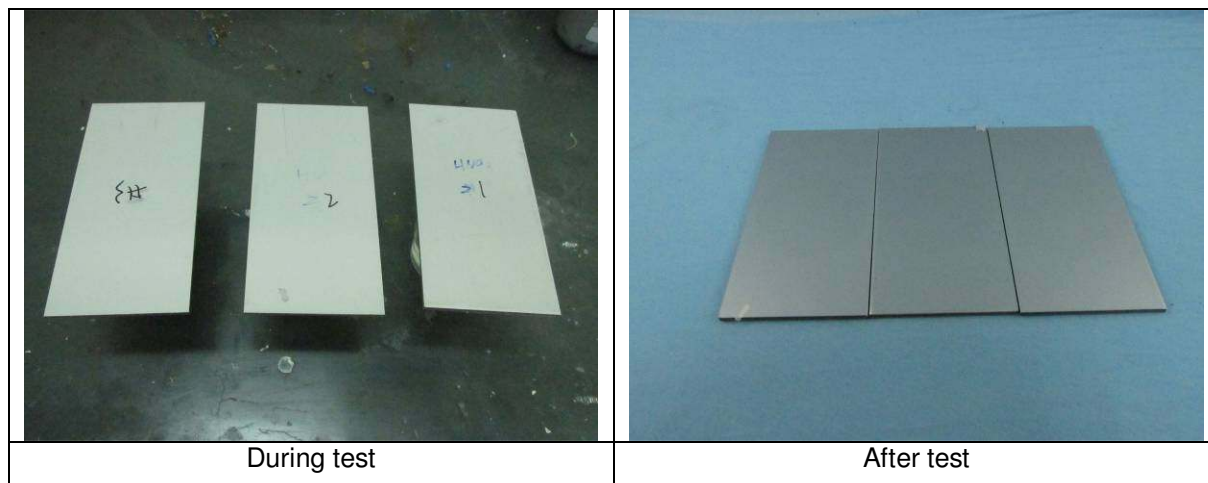
Test Result:

Sample	Test Result(See note 1)
A	$\Delta E_h = 0.5$

Note:

- ΔE_h was measured by sphere spectrophotometer, and under D65 standard light source with 10° observer. The results include specular reflection condition, 25mm aperture.
- The protected film was ripped off before test.

Test Photo:



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17. Test Item: Window Cleaner Resistance

Sample Description: Metal product with coating

Test Method: With reference to AAMA 2604-13 Section 8.7.5 and client's requirement

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

Note: The protected film was ripped off before test.



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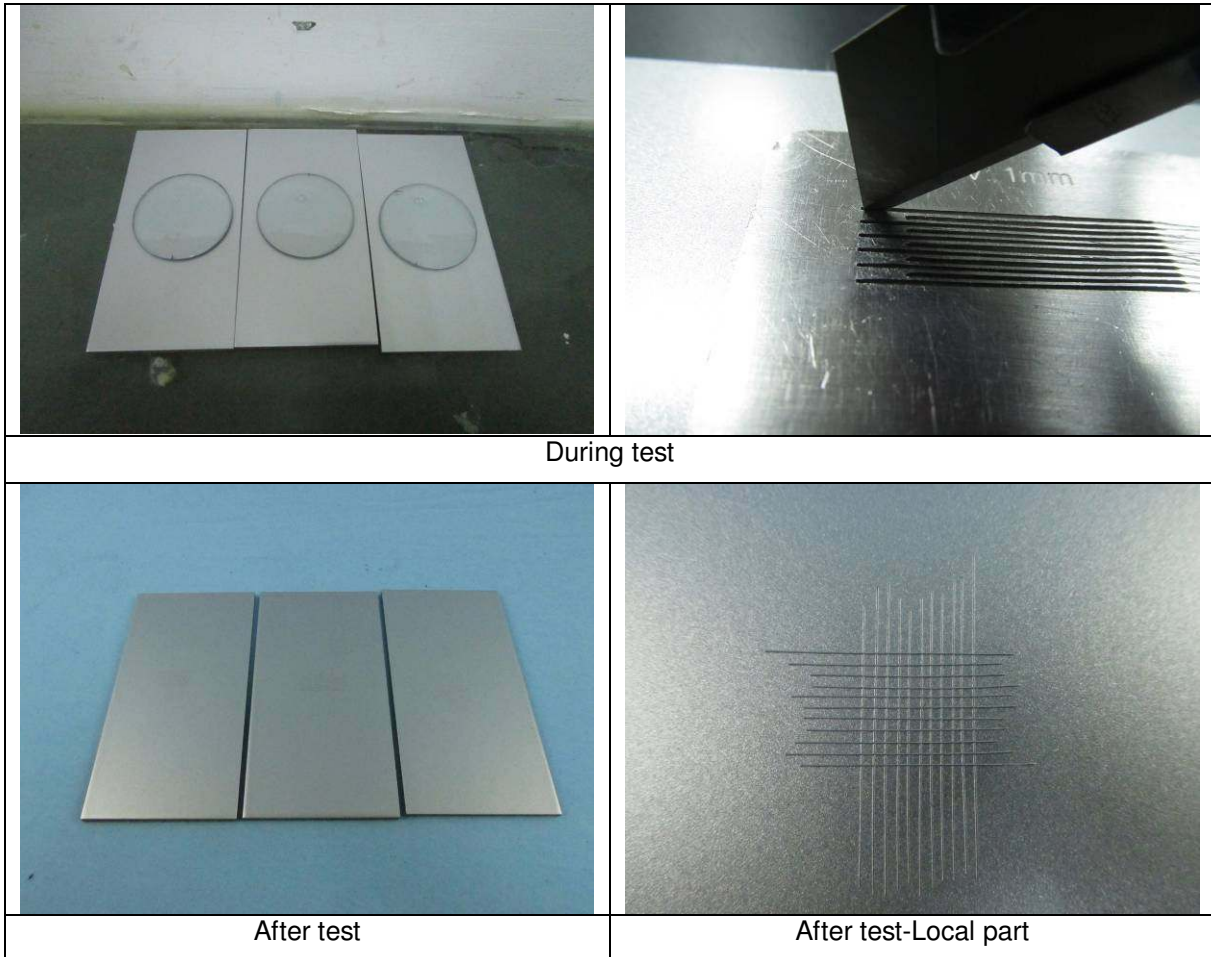
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18. Test Item: Thermal conductivity

Test Method: ASTM C518-15

Test Condition:

Specimen: 300mm×299mm×3.9mm, 1pc;

Density: about 1414 kg/m³;

Mean temperature: 30°C;

Temperature difference: 5°C

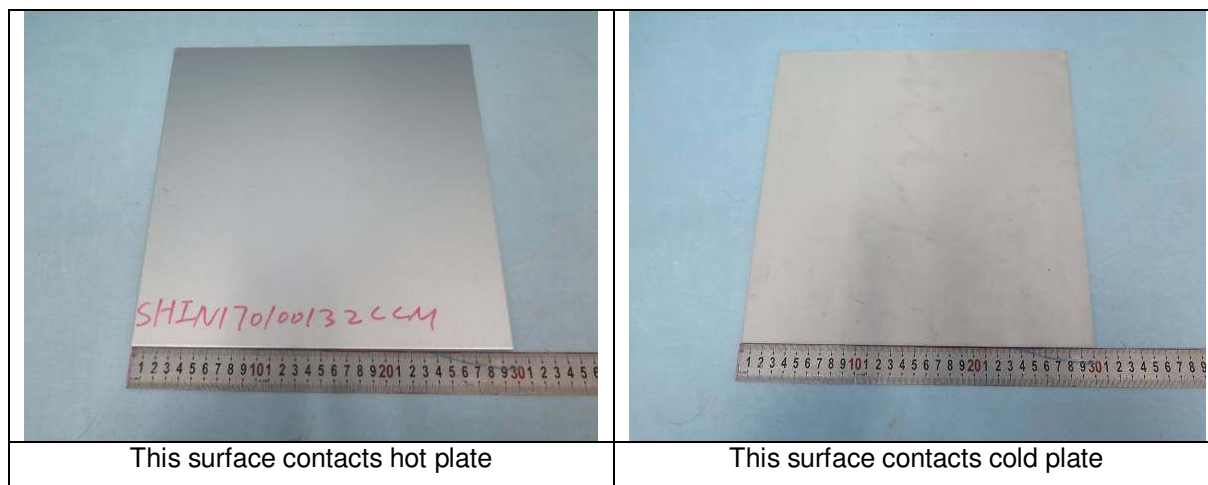
Lab Environmental condition: 23±2°C, 50±5%RH;

Test Result:

Test Item	Test Result
Thermal conductivity	0.128W/(m·K)

Note: The test result can not be compared with other results obtained from different test conditions, and should not be cited to the use condition directly.

Test Photo:



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19. Test Item: Coefficient of linear thermal expansion

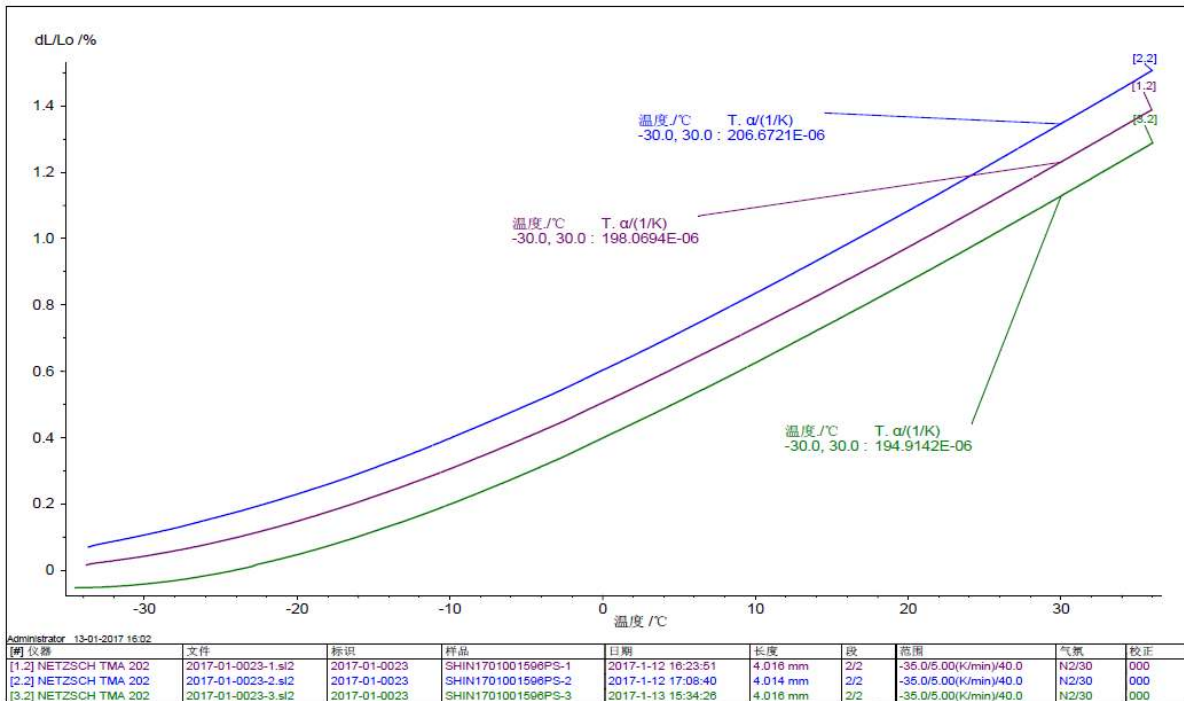
Sample Description: Solid

Test Method: ASTM D696-2016

Test Result:

Test Item	Unit	Test Result
Coefficient of linear thermal expansion (-30°C~30°C)	μm/(m.°C)	206.7×10 ⁻⁶
		198.1×10 ⁻⁶
		194.9×10 ⁻⁶
		Average: 199.9×10 ⁻⁶

Linear Thermal Expansion Atlas:



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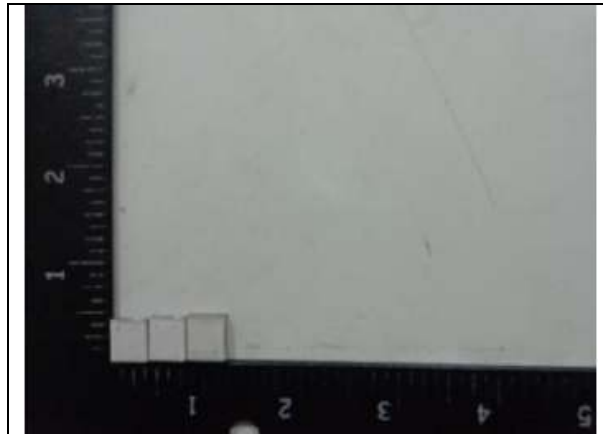
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Test Photo:



- The test item 12~17 was performed by SGS other internal laboratory.
- The test item 19 was carried out by external laboratory assessed as competent.

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



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