

TEST REPORT

No. : GZIN1904015216CM-01

Date : Sep 04, 2019

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CUSTOMER NAME: AKBARI ENGINEERING (PRIVATE) LIMITED
ADDRESS: Plot No. 188 SUNDER INDUSTRIAL ESTATE LAHORE PAKISTAN

Sample Name : Aluminium sheets
Other Information : Brand name: EUROBOND
TELL: +92-42-35297161-3

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. : IND-QMS-AN-40
Date of Receipt : Apr 03, 2019
Testing Start Date : Apr 03, 2019
Testing End Date : May 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

Tobyy Yang
Authorized signatory



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

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Summary of Results:

No.	Test Item	Test Method	Result	Conclusion
1	Adhesion Test of Coatings	ASTM D3359-17 Method B	5B	/
2	Bend Test (Conical Mandrel)	ASTM D522/D522M-17 Method A	No cracking	/
3	Coating Thickness	ASTM D7091-13	28.4µm	/
4	Impact Resistance	ASTM D2794-93(2010)	Impact failure end point: 160kg.cm	/
5	Solvent Resistance (by Rubbing)	ASTM D5402-15 Method A	No visual change	/
6	Boiling Water Adhesion	AAMA 2605-17a Section 8.4.1.1 & 8.4.1.2 & ASTM D3359-17 Method B	5B	/
7	Flexural Strength	ASTM D790-17 Procedure A	75.1MPa	/
8	90°Peel Strength	With reference to ASTM D903-98(2017) and client's requirement	0.501kgf/mm	/

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



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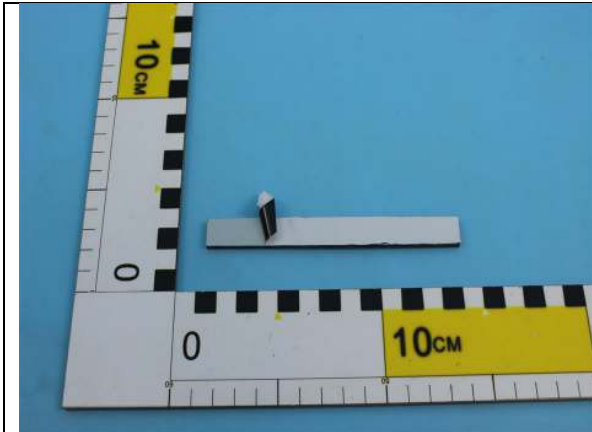
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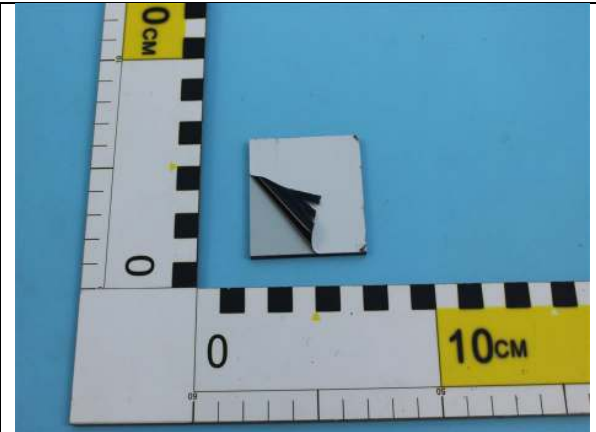
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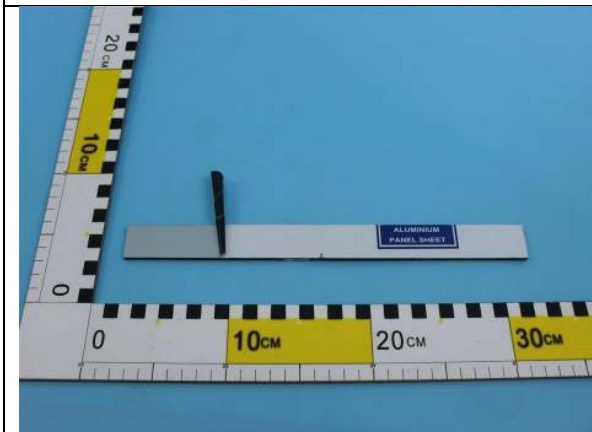
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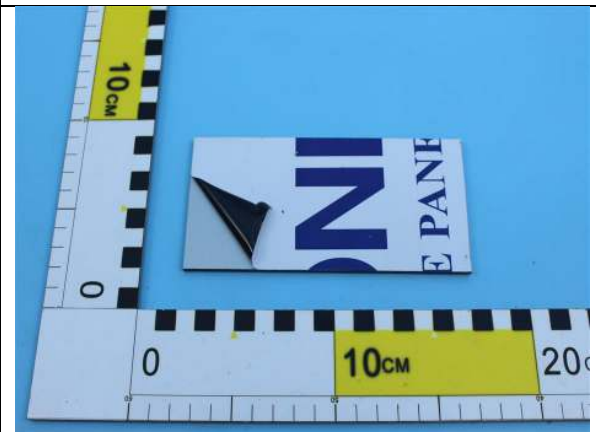
Sample A



Sample A



Sample A



Sample A



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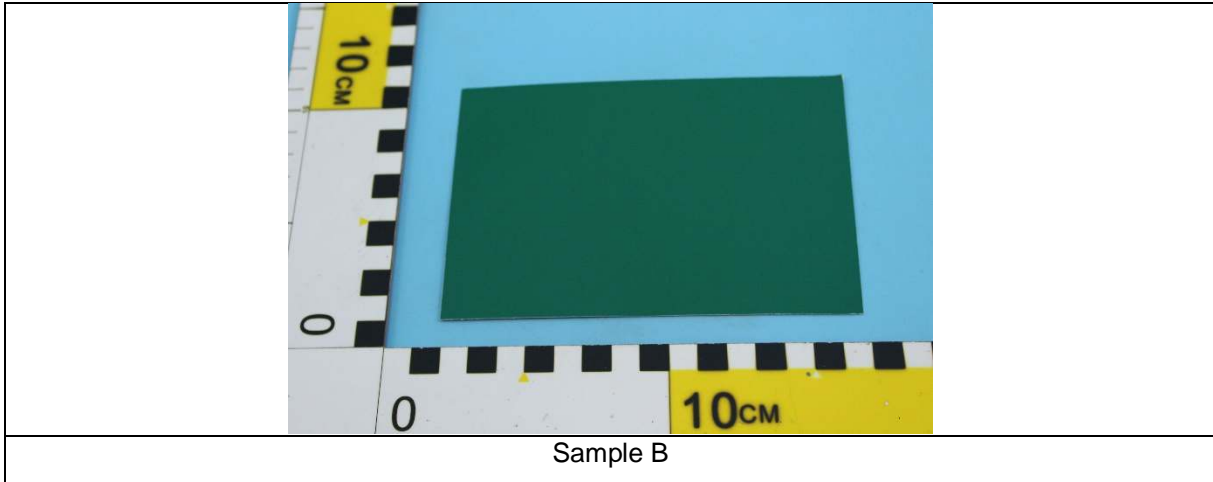
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1. Test Item: Adhesion Test of Coating

Sample Description: See photo

Test Method: ASTM D3359-17 Method B

Test Condition:

Space: 1mm

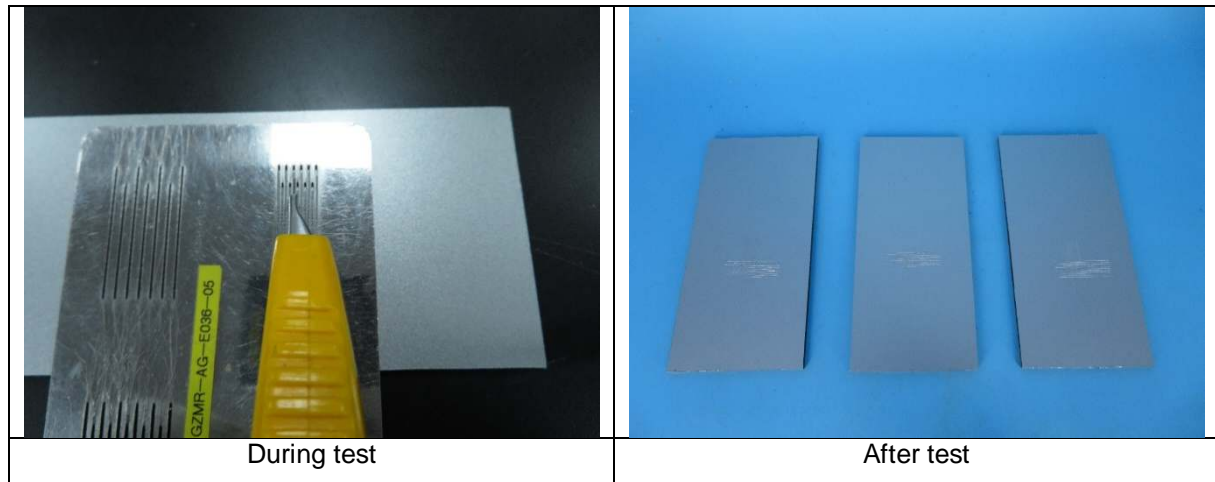
Tape: Elcometer 99

Test Result:

Sample	Adhesion classification
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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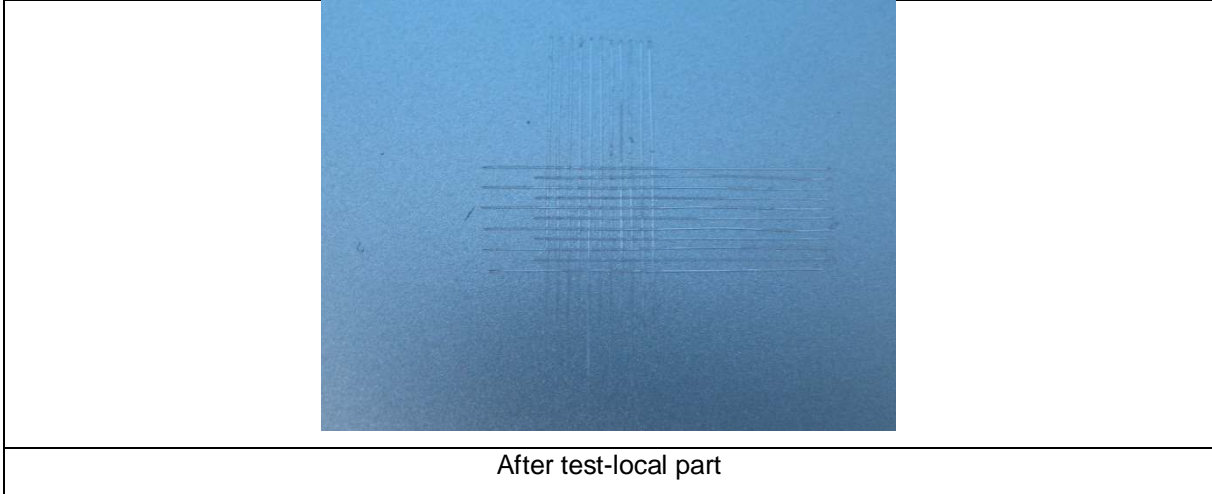
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2.Test Item: Bend Test (Conical Mandrel)

Sample Description: See photo

Test Method: ASTM D522/D522M-17 Method A

Test Condition:

Length of cone: 200mm

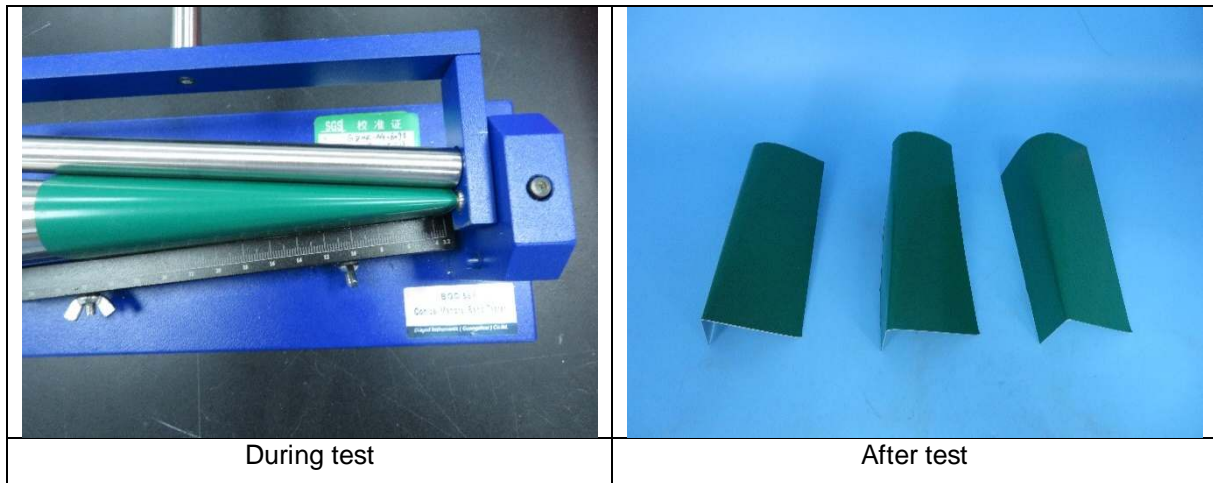
Min: Φ3.0mm

Max: Φ38mm

Test Result:

Sample	Appearance
B	No cracking

Test Photo:



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3. Test Item: Coating Thickness

Sample Description: See photo

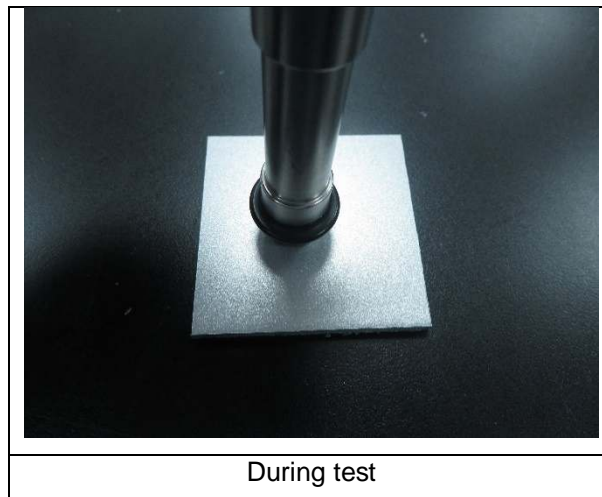
Test Method: ASTM D7091-13

Test Condition: Eddy-Current Gauge

Test Result:

Sample	Coating Thickness
A	28.4μm

Test Photo:



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4. Test Item: Impact Resistance

Sample Description: See photo

Test Method: ASTM D2794-93(2010)

Test Condition:

Coating thickness: 28.4µm

Sample thickness: 4.0mm

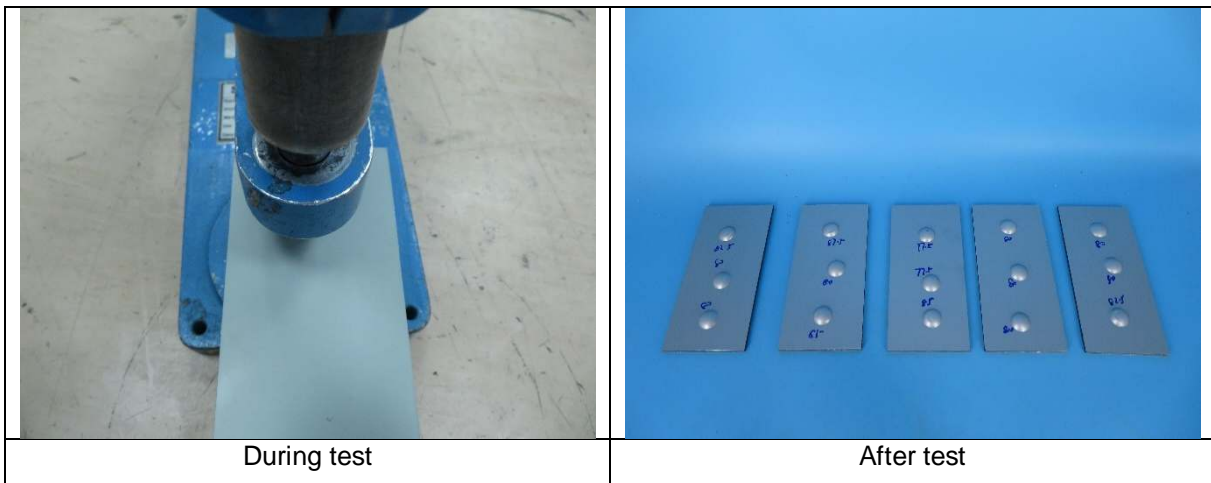
Impact model: Extrusion

Hammer weight: 2kg

Test Result:

Sample	Impact failure end point
A	160kg·cm

Test Photo:



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5. Test Item: Solvent Resistance (by Rubbing)

Sample Description: See photo

Test Method: ASTM D5402-15 Method A

Test Condition:

Solvent: MEK

Cloth: ISO 105 F09

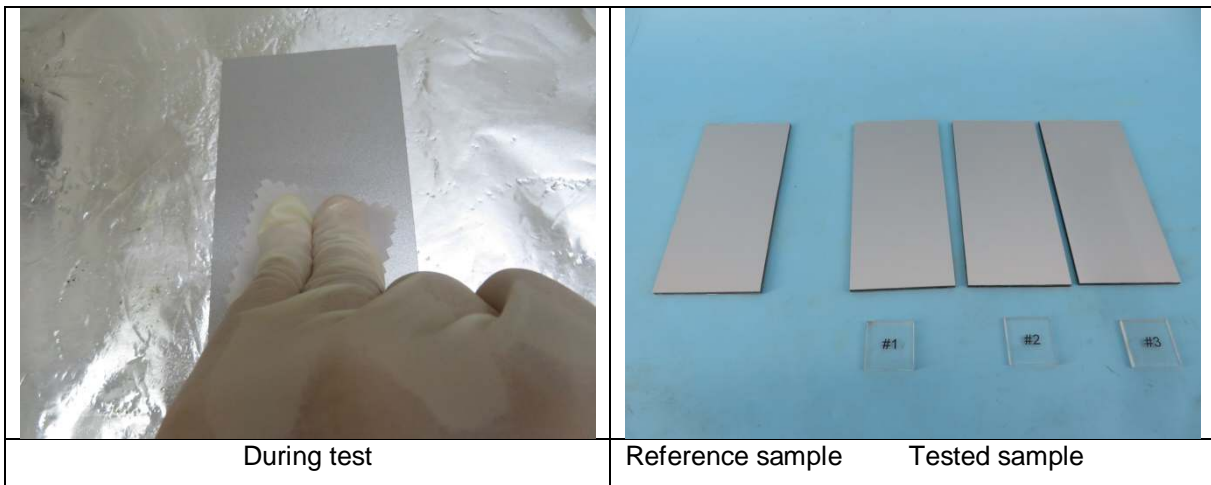
Rubbing Rate: 1 double rub/s

Number of double rubs: 25double rubs

Test Result:

Sample	Appearance
A	No visual change

Test Photo:



During test

Reference sample

Tested sample



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6. Test Item: Boiling Water Adhesion

Sample Description: See photo

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

Test Condition:

Cut space: 1mm

Immersed in boiling water for 20min

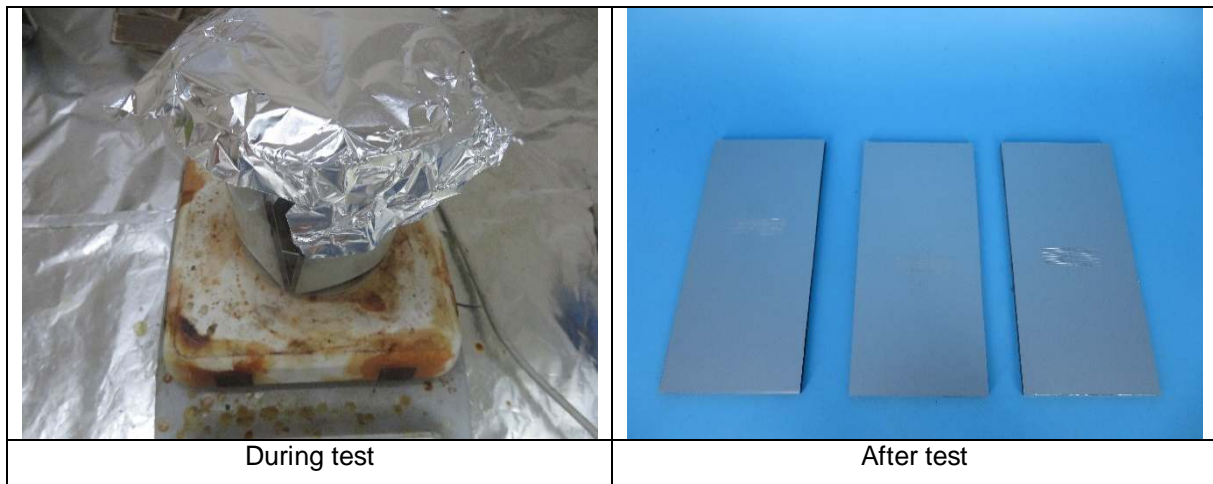
Tape: Elcometer 99

Test Result:

Sample	Adhesion classification
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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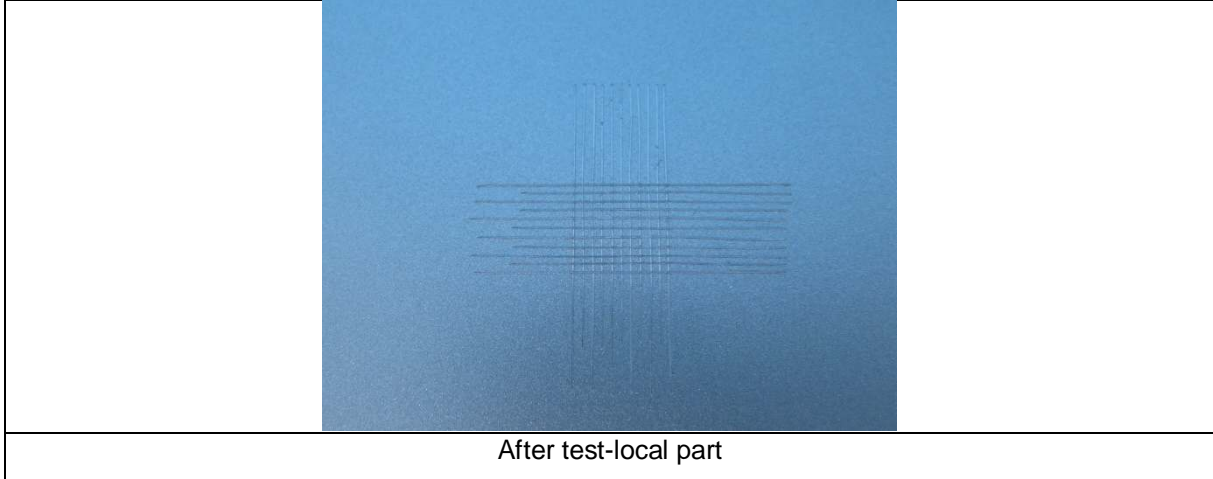
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Date : Sep 04, 2019

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SGS-TESTING SERVICES
Guangzhou Branch Testing Laboratory

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7. Test Item: Flexural Strength

Sample Description: See photo

Test Method: ASTM D790-17 Procedure A

Test Condition:

Specimen: 127mm×13.32mm×3.95 mm

Testing speed: 1.7mm/min

Span: 64mm

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

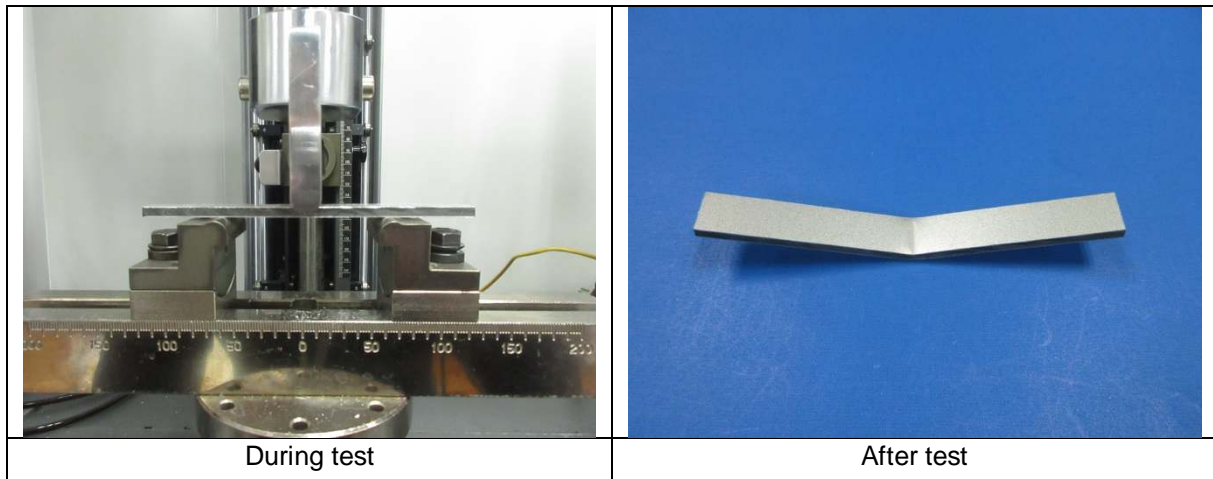
Test Result:

Sample	Test Item	Test Result
A	Flexural Strength	75.1MPa

Note:

1. The surface with the 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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8. Test Item: 90°Peel Strength

Sample Description: See photo

Test Method: With reference to ASTM D903-98(2017) and client's requirement

Test Condition:

Specimen width: 25.1mm

Separation speed: 152.4mm/min

Number of specimens tested: 10

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

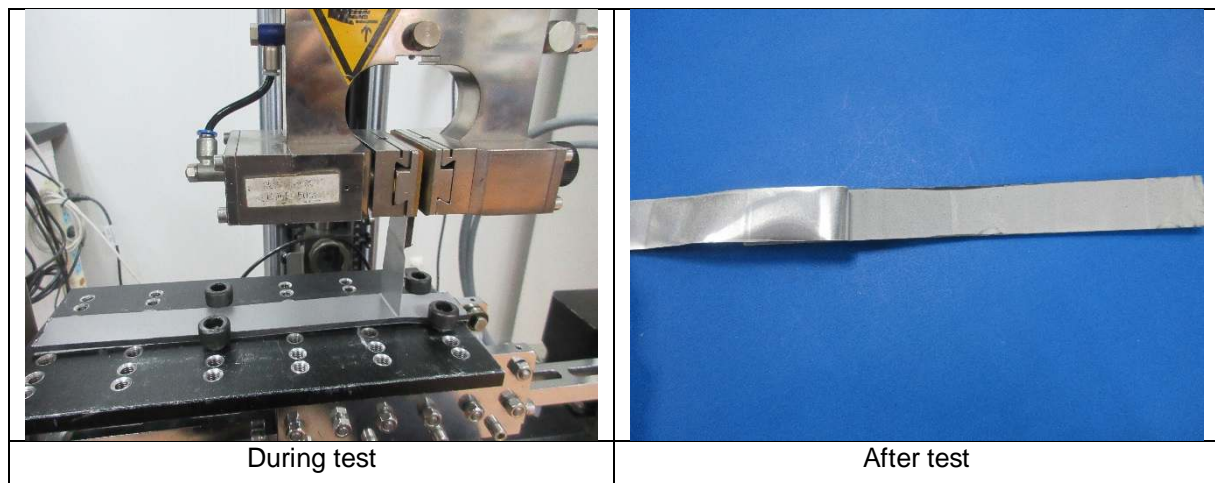
Test Result:

Sample	Test Item	Test Result
A	90°Peel Strength	0.501kgf/mm

Note:

- 1.The surface with the protected film was tested.
- 2.The protected film of test specimens was ripped off before test.
- 3.Failure mode: adhesion failure.

Test Photo:



Note: This test report supersedes the test report GZIN1904015216CM date: 2019-07-10, the original test reports (paper and electronic) are void.

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



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