



TEST REPORT

No. : GZIN161102146CCM

Date : Dec. 09, 2016

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CLIENT NAME: JIANGSU PIVOT NEW DECORATIVE MATERIALS CO., LTD.
ADDRESS: PIVOT INDUSTRIAL PARK, HUASHI, JIANGYIN, JIANGSU, CHINA

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

Sample Name : Aluminum composite panel
Spec. : FEVE
SGS Ref. No. : GZIN161102146CCM
Manufacturer : JIANGSU PIVOT NEW DECORATIVE MATERIALS CO., LTD.
Test Performed : Selected test(s) as requested by applicant
Date of Receipt : Nov. 22, 2016
Test Period : Nov. 23, 2016 to Nov. 30, 2016

Test result(s) : Please refer to the following page(s)

*****To be continued*****

Signed for and on behalf of
SGS-CSTC Standards Technical Services Co.,Ltd
Guangzhou Branch

Jay Xue
Authorized signatory

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Guangzhou Branch Testing Service Construction Material Laboratory

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Summary of Results:

No.	Test Item	Test Method	Result	Conclusion
1	Abrasion Resistance	AAMA 2605-13 Section 8.6 & ASTM D968-05(2010) Method A	Appearance: Visual abrasion trace, but no worn-out to the substrate	Pass
2	Impact Resistance	AAMA 2605-13 Section 8.5	No removal of film	Pass
3	Dry Adhesion	AAMA 2605-13 Section 8.4.1.1, 8.4.1.2	No removal of film or loss of adhesion	Pass
4	Dry Film Hardness	AAMA 2605-13 Section 8.3 & ASTM D3363-05(2011) ^{ε2}	Scratch hardness: F	Pass
5	Specular Gloss	AAMA 2605-13 Section 8.2	Gloss: 51	Pass
6	Peel Strength	ASTM D903-98(2010)	0.433kgf/mm	/

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: AAMA 2605-13 Section 8.6 & ASTM D968-05(2010) Method A

Test Condition:

Abrasive sand: Silica sand

Speed: 21~23.5s/2L

Coating thickness: 1.70mil

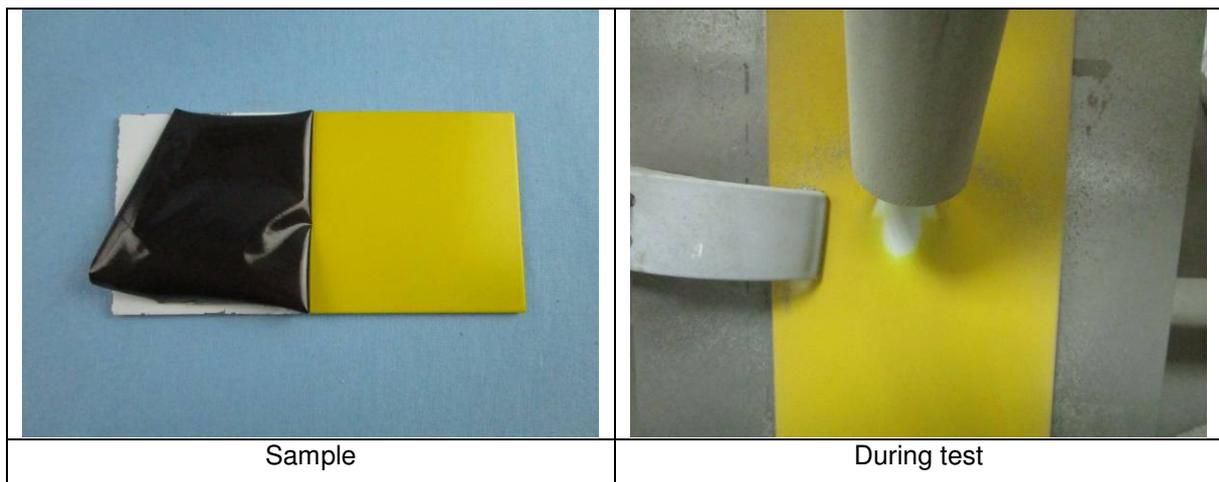
Liters of sand: 68L

Test Result:

Test Item	Appearance	Requirement in AAMA 2605-13	Conclusion
Impact Resistance	Visual abrasion trace, but no worn-out to the substrate	≥40L/mil	Pass

Note: The protected film was ripped off before test.

Test Photo:

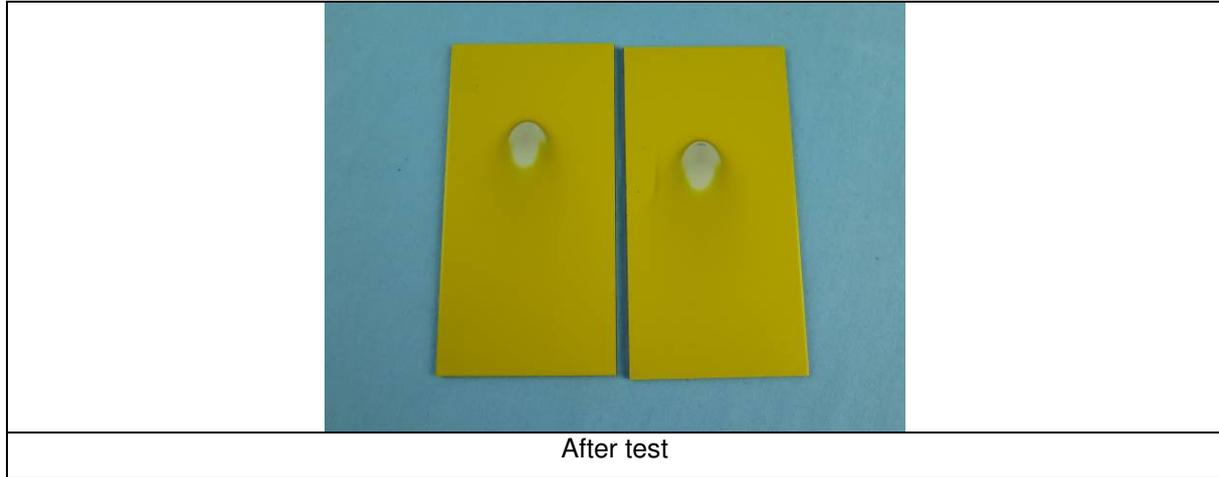


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2. Test Item: Impact Resistance

Sample Description: See photo

Test Method: AAMA 2605-13 Section 8.5

Test Condition:

Diameter of the punch: 16mm

Impact type: Intrusion

Tape: Elcometer 99

Test Result:

Test Item	Test result	Requirement in AAMA 2605-13	Conclusion
Impact Resistance	No removal of film	No removal of film	Pass

Note: The protected film was ripped off before test.



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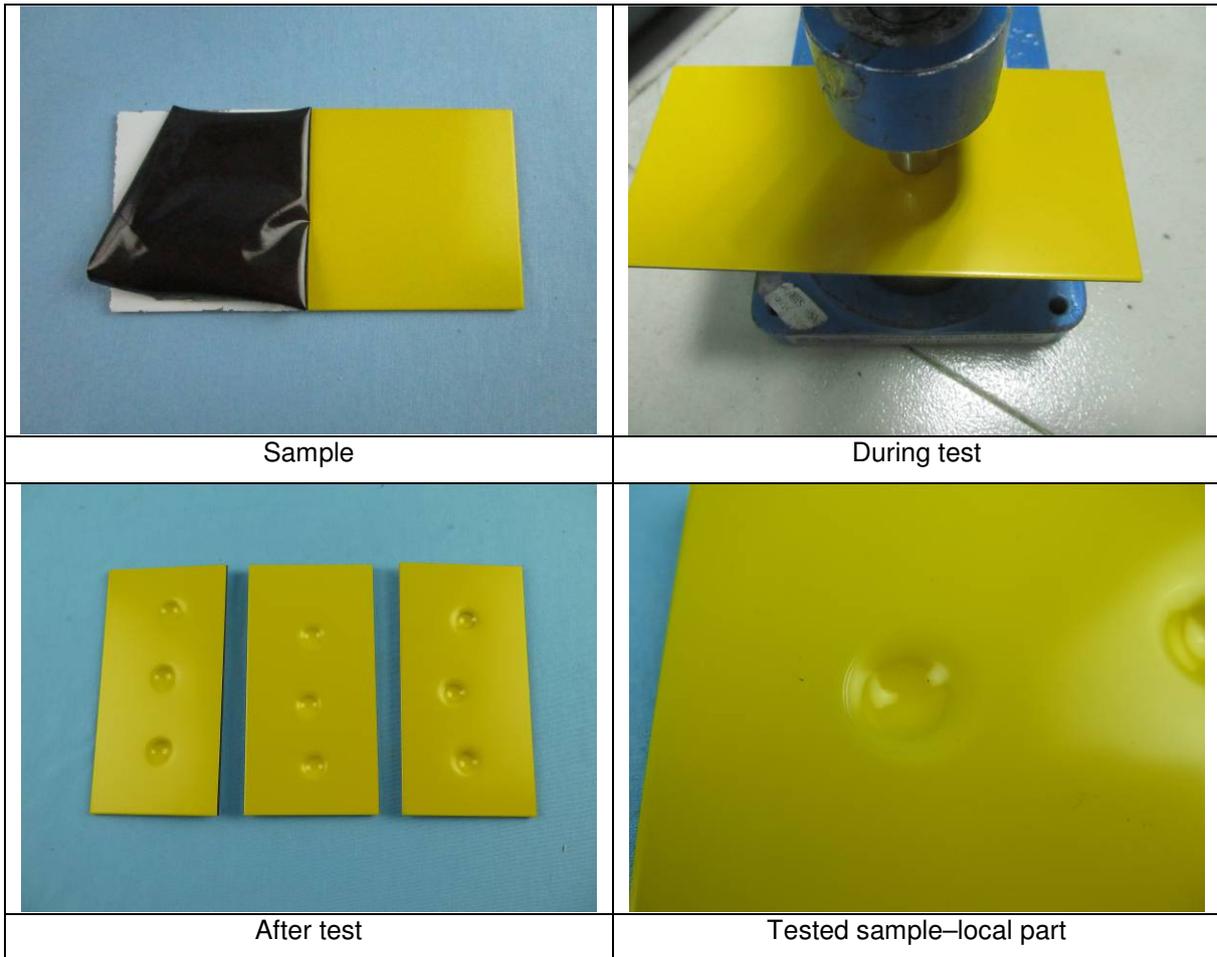
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Test Photo:



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3. Test Item: Dry Adhesion

Sample Description: See photo

Test Method: AAMA 2605-13 Section 8.4.1.1 & 8.4.1.2

Test Condition:

Space: 1mm

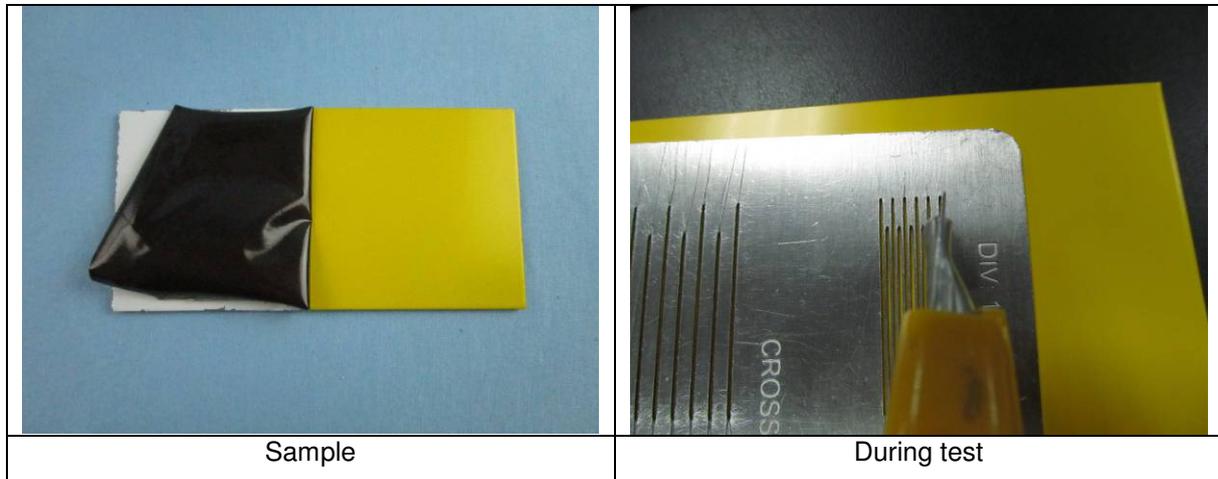
Tape: Elcometer 99

Test Result:

Test Item	Test results	Requirement in AAMA 2605-13	Conclusion
Dry Adhesion	No removal of film or loss of adhesion	No removal of film or loss of adhesion	Pass

Note: The protected film was ripped off before test.

Test Photo:



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4. Test Item: Dry Film Hardness

Sample Description: See photo

Test Method: AAMA 2605-13 Section 8.3 & ASTM D3363-05(2011)^{e2}

Test Condition:

Pencil: Mitsubishi® Uni

Test Result:

Test Item	Test result	Requirement in AAMA 2605-13	Conclusion
Dry Film Hardness	Scratch hardness: F	≥ F	Pass

Note:

1. In ASTM D3363-05(2011)^{e2}, 6H is the hardest and 6B is the softest.
2. The protected film was ripped off before test.



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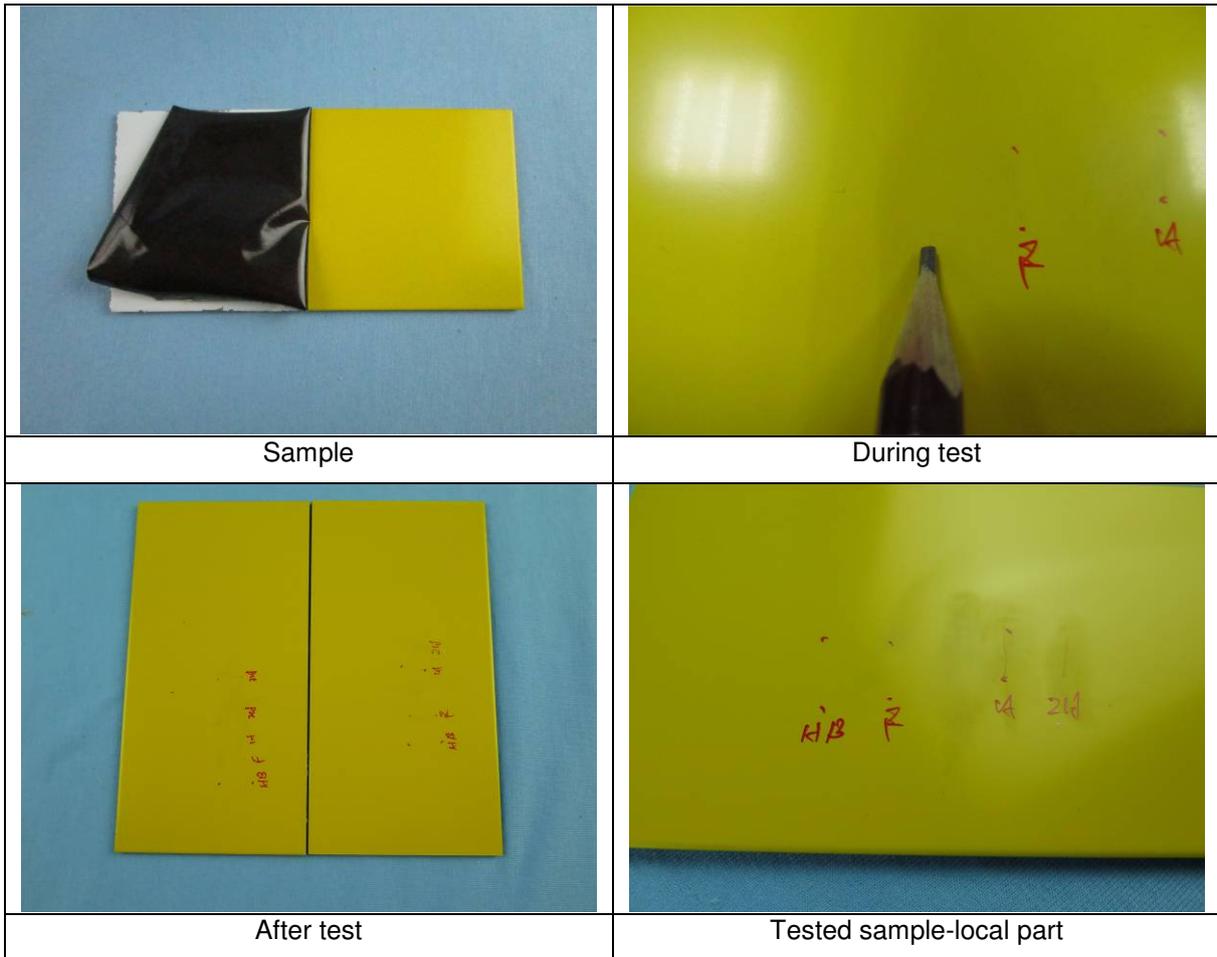
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Test Photo:



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5. Test Item: Specular Gloss

Sample Description: See photo

Test Method: AAMA 2605-13 Section 8.2 & ASTM D523-14

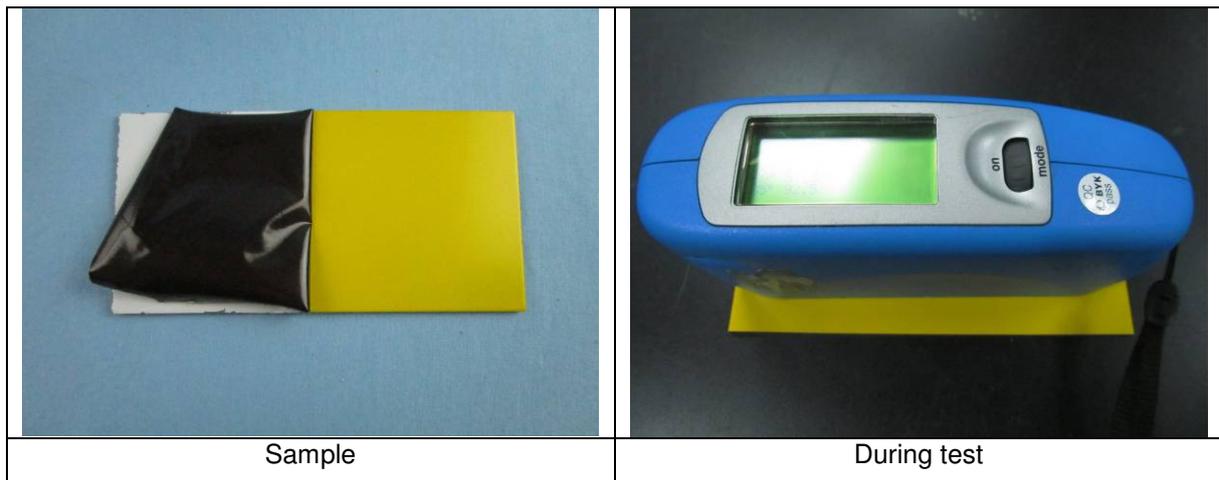
Test Condition: 60° geometry

Test Result:

Test Item	Gloss	Client's requirement	Conclusion
Specular Gloss	51	47±5	Pass

Note: The protected film was ripped off before test.

Test Photo:



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6. Test Item: Peel Strength

Sample Description: See photo

Test Method: ASTM D903-98(2010)

Test Condition:

Specimen width: 25mm

Separation speed: 152.4mm/min

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

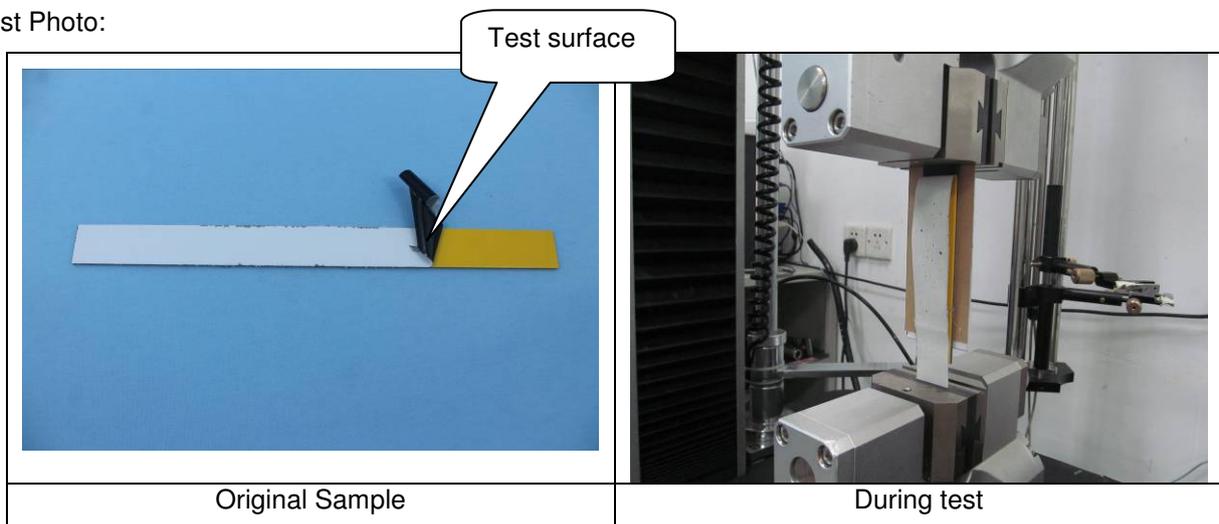
Test Result:

Test Item	Test Result
Peel Strength	0.433kgf/mm

Note:

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

Test Photo:

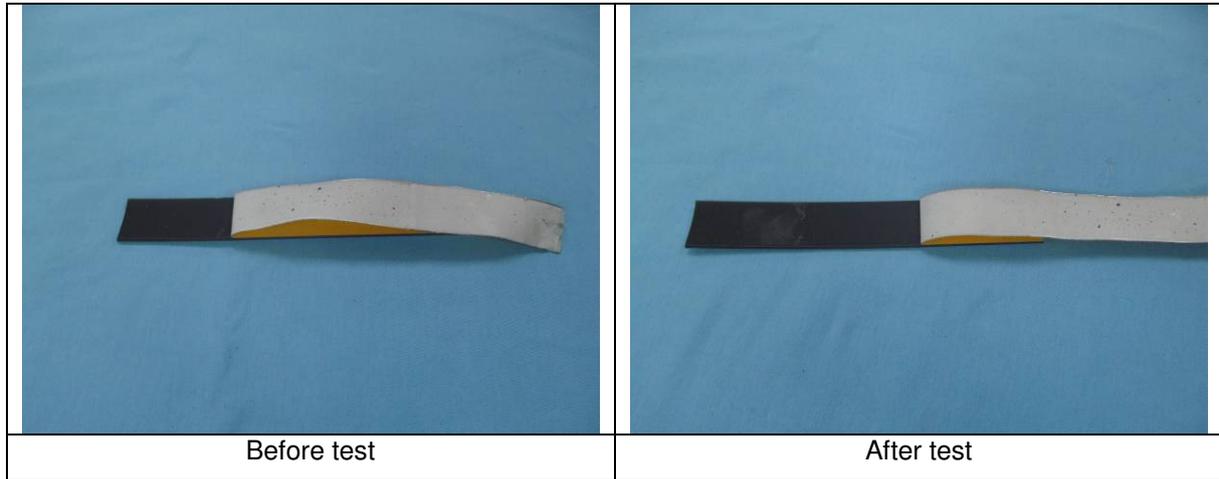


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***** End of report*****



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