



TEST REPORT

No. : GZIN161001935CCM-01

Date : Nov. 22, 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. : FC two-coating
SGS Ref. No. : GZIN161001935CCM-01
Manufacturer : JIANGSU PIVOT NEW DECORATIVE MATERIALS CO., LTD.
Test Performed : Selected test(s) as requested by applicant
Date of Receipt : Oct. 28, 2016
Test Period : Oct. 28, 2016 to Nov. 04, 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

** Unless otherwise stated the results shown in this test report refer only to the sample(s) tested. The report should not be reproduced except in full without written approval from the Company



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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	96 L/mil	Pass
2	Impact Resistance	AAMA 2605-13 Section 8.5	No removal of film	Pass
3	Muriatic Acid Resistance	AAMA 2605-13 Section 8.7.1	No blistering or other visual change	Pass
4	Nitric Acid Resistance	AAMA 2605-13 Section 8.7.3 & ASTM D2244-11	$\Delta E=0.2$	Pass
5	Dry Adhesion	AAMA 2605-13 Section 8.4.1.1 & 8.4.1.2	No removal of film or loss of adhesion	Pass
6	Dry Film Hardness	AAMA 2605-13 Section 8.3 & ASTM D3363-05(2011) ^{e2}	3H	Pass

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



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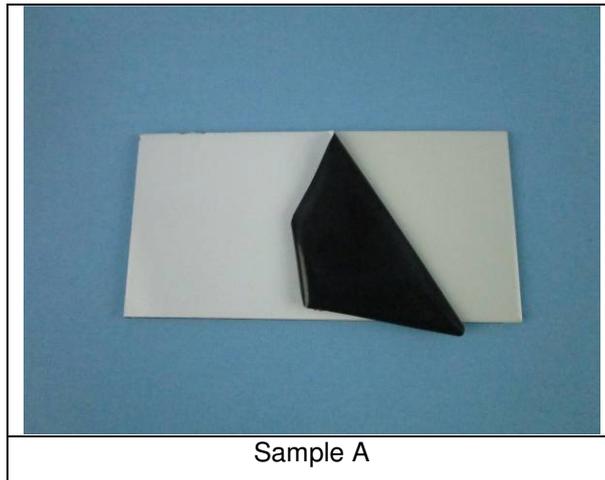
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Original Sample Photo:



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1. Test Item: Abrasion Resistance

Sample Description: See photo

Test Method: AAMA 2605-05(2010) Section 8.6 & ASTM D968-15 Method A

Test Condition:

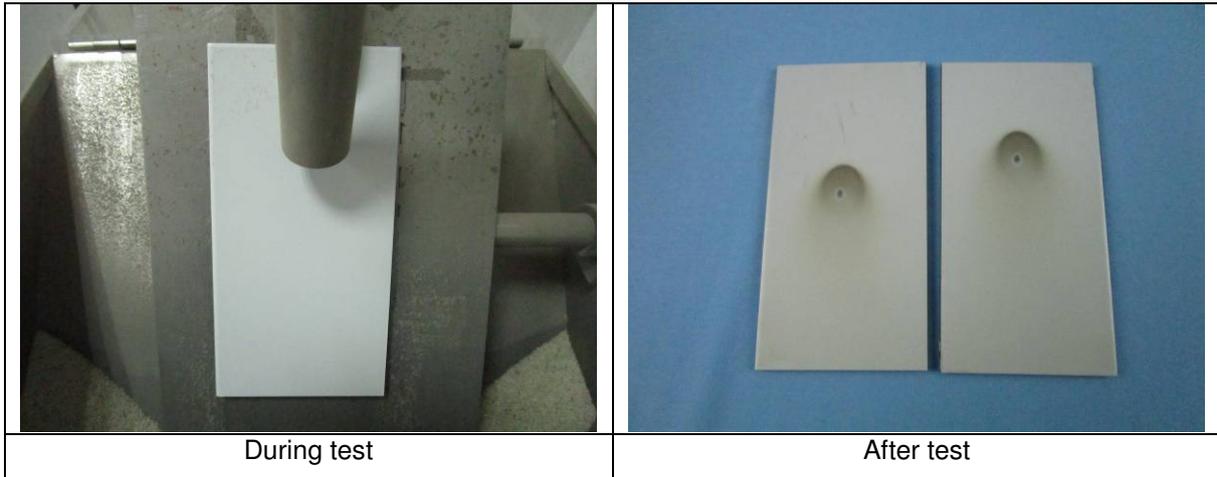
Sand: silica sand

Speed: 21~23.5s/2L

Test Result:

Sample	Abrasion coefficient value	Requirement in AAMA 2605-13	Conclusion
A	96 L/mil	≥40L/mil	Pass

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

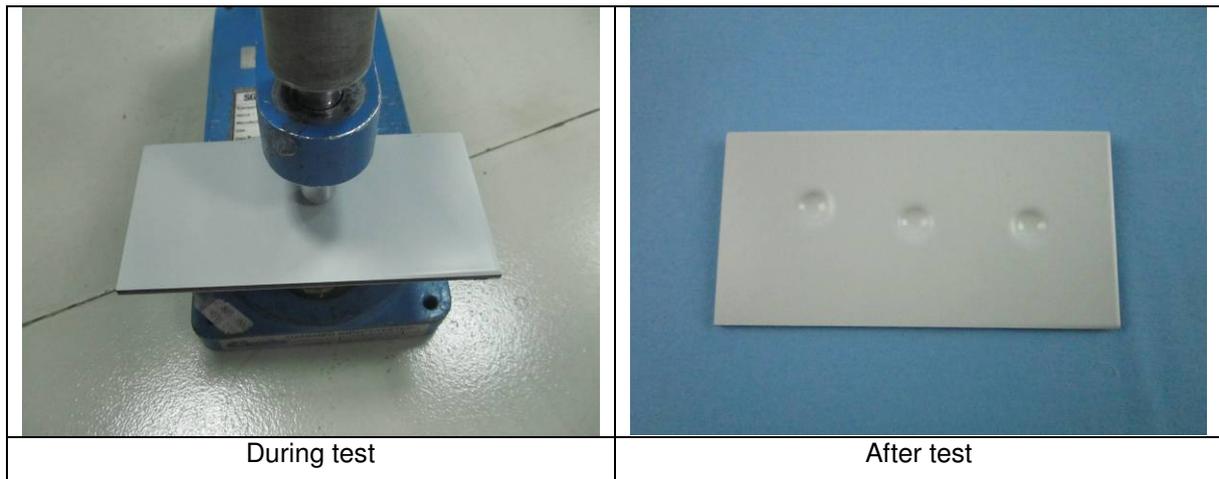
Impact type: Intrusion

Tape: Elcometer 99

Test Result:

Sample	Test result	Requirement in AAMA 2605-13	Conclusion
A	No removal of film	No removal of film	Pass

Test Photo:



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3. Test Item: Muriatic Acid Resistance

Sample Description: See photo

Test Method: AAMA 2605-13 Section 8.7.1

Test Condition:

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

Method of contact: Spot method

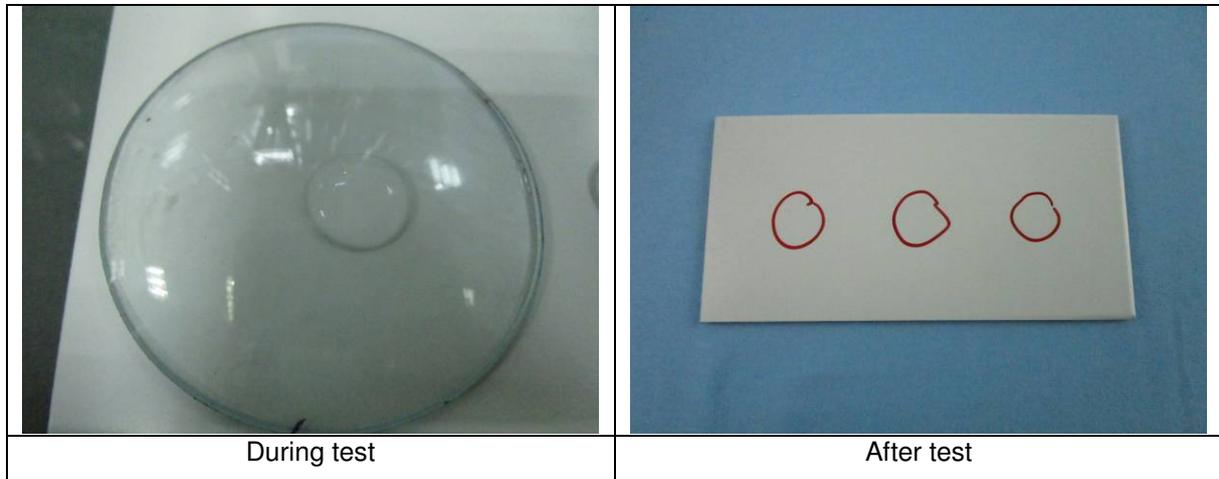
Temperature: Room temperature

Time of contact: 15min

Test Result:

Sample	Test Result	Requirement in AAMA 2605-13	Conclusion
A	No blistering or other visual change	No blistering or other visual change	Pass

Test Photo:



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4. Test Item: Nitric Acid Resistance

Sample Description: See photo

Test Method: AAMA 2605-13 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)	Requirement in AAMA 2605-13	Conclusion
1	$\Delta E=0.2$	$\Delta E \leq 5$	Pass

Note:

1. ΔE was measured by sphere spectrophotometer, and under D65 standard light source with 10° observer. The results include specular reflection condition, 25mm aperture.
2. Blistering was found on the surface of the tested sample.



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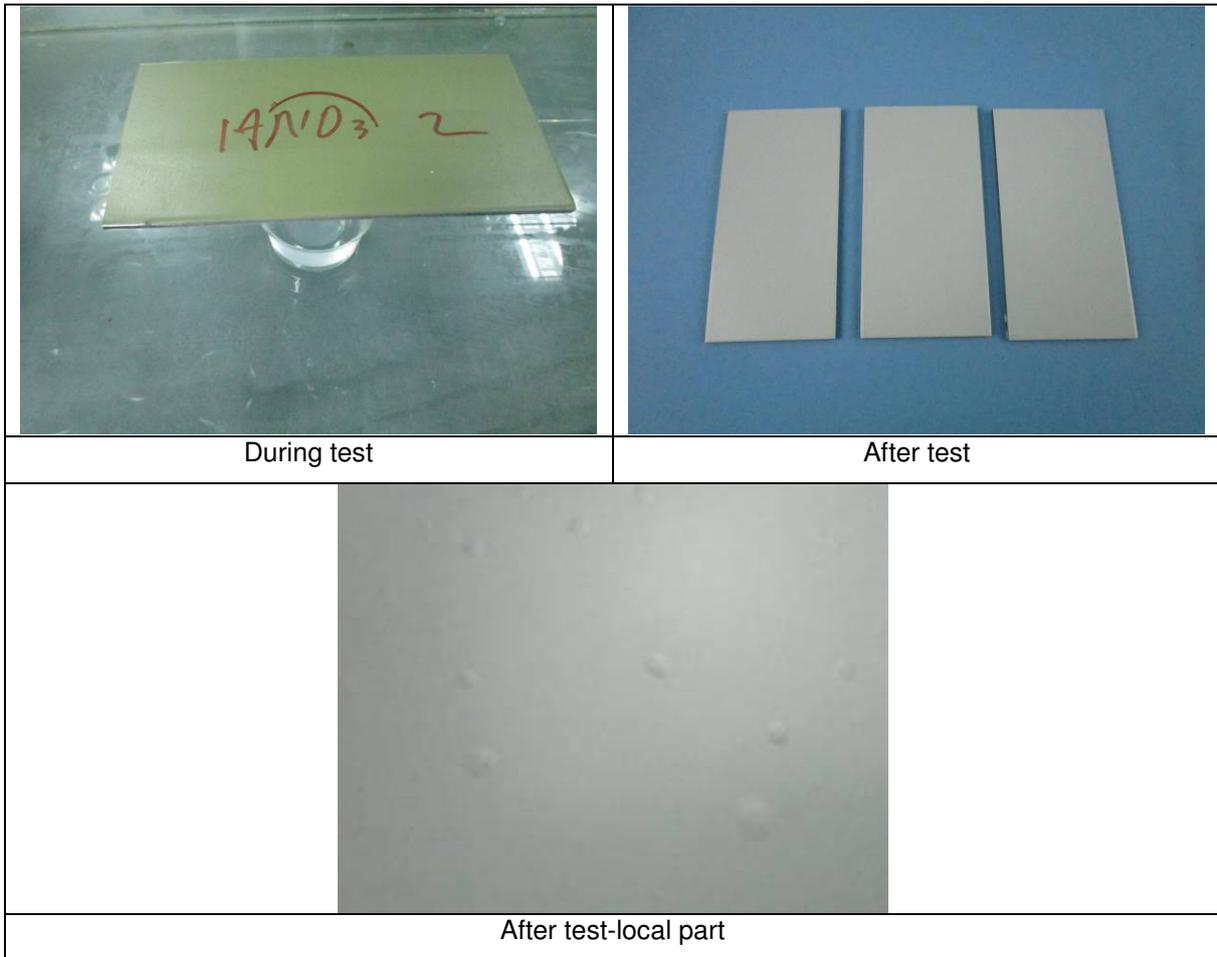
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Test Photo:



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5. 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:

Sample	Test results	Requirement in AAMA 2605-13	Conclusion
A	No removal of film or loss of adhesion	No removal of film or loss of adhesion	Pass

Test Photo:

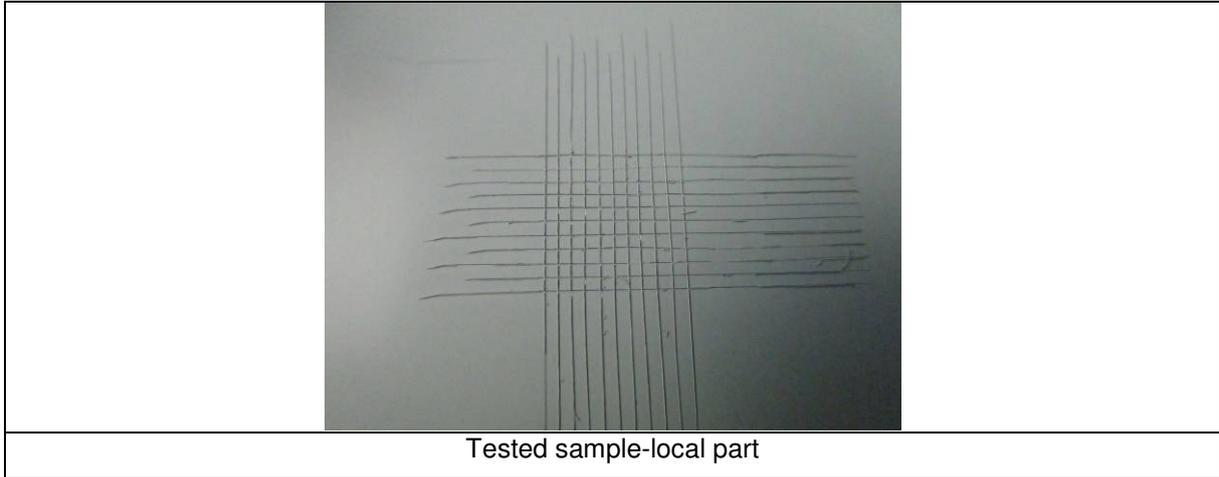


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6. Test Item: Dry Film Hardness

Sample Description: See photo

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

Test Condition:

Pencil: Mitsubishi® Uni

Test Result:

Sample	Test results	Requirement in AAMA 2605-13	Conclusion
A	3H	≥F	Pass

Note: 1. In ASTM D3363-05(2011)^{e2}, 6H is the hardest and 6B is the softest.

2. This test report supersedes the test report GZIN161001935CCM, the original test reports (paper and electronic) are void.



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Test Photo:



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



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