



TEST REPORT

No. : QDIN1802000893PS

Date : Feb 22, 2018

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CUSTOMER NAME: JINAN HENGSHENG NEW BUILDING MATERIALS CO.,LTD
ADDRESS: ROOM601, TOWER D,BINHE BUSINESS CENTER,TIANQIAO
DISTRICT,JINAN CITY

Sample Name : PVC Profile
Product Specification : Handrail、 Wall Protector、 Corner Guard、 Tactile Tile、 Stair Nosing、
Shower Seat 、 Wall panel and Trims
Manufacturer : Shandong Hengsheng Protection Products Co.,Ltd
Buyer : Jinan Hengsheng New Building Materials 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.

SGS Ref. No. : GZIN1802007060MR
Date of Receipt : Feb 05, 2018
Testing Start Date : Feb 05, 2018
Testing End Date : Feb 22, 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 (Qingdao) Co., Ltd.

Vicky Dong
Authorized signatory



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Summary of Results:

No.	Test Item	Test Method	Result		Conclusion
1	Chemical and Stain Resistance	ASTM D543-14	No Visual Change		Pass
2	Chemical and Stain Resistance	ASTM D1308-2002(2013)	No Visual Change		Pass
3	Tensile Test	ASTM D412-16 Method A	Tensile Strength	5.67MPa	Pass
			Elongation at Break	210%	
4	Color Difference	ASTM D2244-16	$\Delta E^*_{ab} = 1.1$		Pass
5	Horizontal Burning	ASTM D635-14	HB		Pass
6	Izod Notched Impact Strength	ASTM D256-10 ^{E1} Method A	NB(non-break)		Pass

Note: 1. Pass : Meet the requirements;

Fail : Does not meet the requirements;

/ : Not Apply to the judgment.

2. Test 4-6 was carried out by a SGS internal other laboratory.



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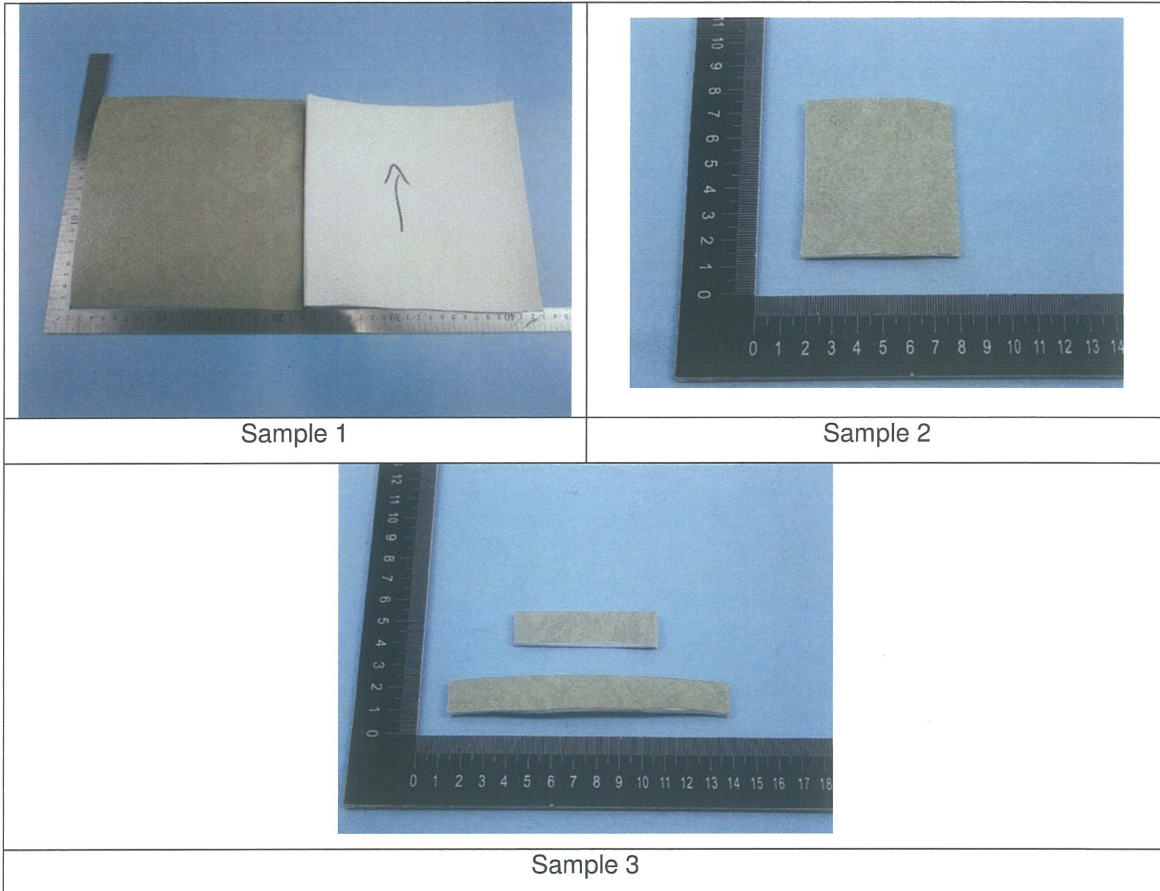
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Original Sample Photo:



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1. Test Item: Chemical and Stain Resistance

Sample Description: See photo

Test Method: ASTM D543-14 Practice A Procedure I

Test Condition:

Condition: Immerse in ethyl alcohol, 23 °C, 24 h→Wash with running water and wipe off

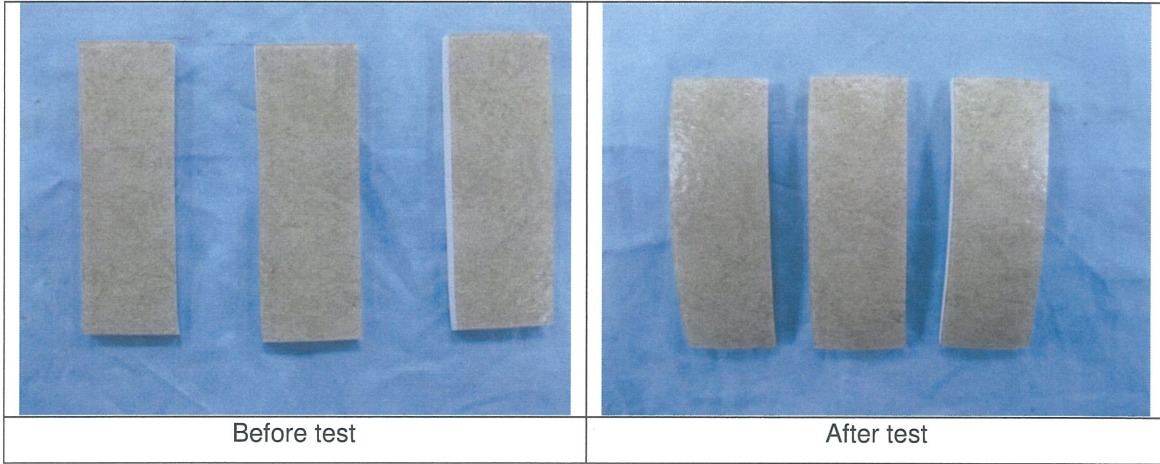
Lab Environment Condition: 23 ± 2 °C, 50 ± 5 % RH

Test Result:

Sample	Test Result
1	No Visual Change

Note: Test specimens were cut from the sample.

Test Photo:



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2. Test Item: Chemical and Stain Resistance

Sample Description: See photo

Test Method: ASTM D1308-2002(2013),Spot test-Open

Test Condition:

Test Time: 15min

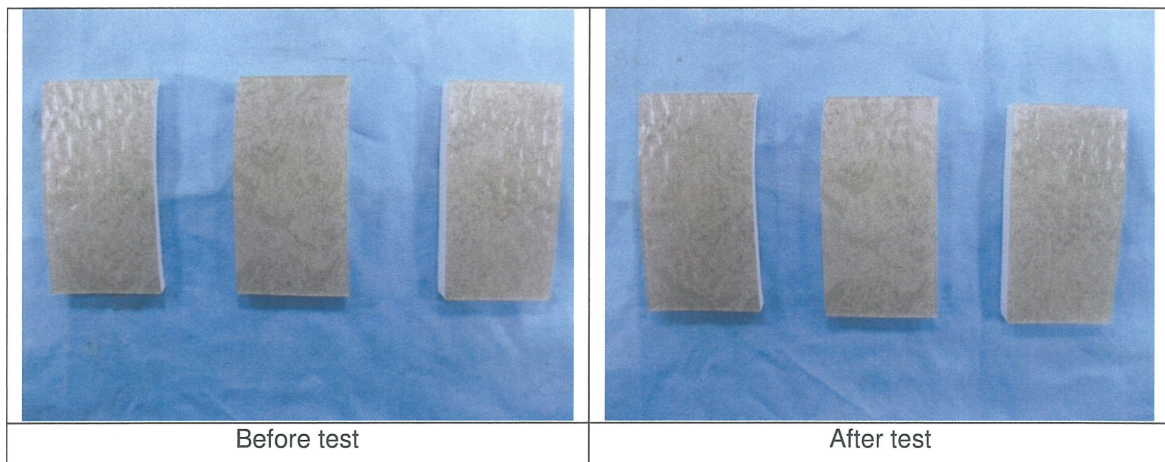
Reagent: ethyl alcohol

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

Test Result:

Sample	Test Result
1	No Visual Change

Test Photo:



Note: Test specimens were cut from the sample.



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3. Test Item: Tensile Test

Sample Description: See photo

Test Method: ASTM D412-16 Method A

Test Condition:

Specimen: Die C

Specimen thickness: 4.26mm

Testing speed: 500mm/min

Gauge length: 25mm

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

Test Result:

Sample	Test Item	Test Result
1	Tensile Strength	5.67MPa
	Elongation at Break	210%

Note: Test specimens were cut from the sample.

4. Test Item: Color Difference

Sample Description: See photo

Test Method: ASTM D2244-16

Test Condition:

Sphere spectrophotometer d/8

Illuminant: D65

Observer: 10°

Aperture diameter: 25mm

Test mode: Specular Component Included

Test Result:

Sample	ΔE^*_{ab}
2	1.1



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5. Test Item: Horizontal Burning

Sample Description: See photo

Test Method: ASTM D635-14

Test Condition:

Specimen: 130 mm × 13.2 mm × 4.2 mm

Conditioning: 23 ± 2 °C, 50 ± 5 % RH, 48 h

Test Result:

Sample 3

Specimen	1	2	3	4	5	6	7	8	9	10
Burning distance, mm	/	/	/	/	/	/	/	/	/	/
Burning time, s	/	/	/	/	/	/	/	/	/	/
Burning rate, mm/min	0	0	0	0	0	0	0	0	0	0
Average burning rate, mm/min	0									

Requirements of HB Classification:

- a) There are no visible signs of combustion after the ignition source is removed, or
- b) The flame front does not pass the 25 mm reference mark, or
- c) The flame front passes the 25 mm reference mark but does not reach the 100 mm reference mark, or
- d) The flame front reaches the 100 mm reference mark and the linear burning rate does not exceed 40 mm/min for specimens having a thickness between 3 and 13 mm or 75 mm/min for specimens having a thickness less than 3 mm, or
- e) If the linear burning rate does not exceed 40 mm/min when tested in the 3.0 mm ± 0.2 mm thickness, it shall automatically be accepted extended to a 1.5 mm minimum thickness.

Classification: HB

Note: The flame extinguished before the 25 mm reference mark.



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6. Test Item: Izod Notched Impact Strength

Sample Description: See photo

Test Method: ASTM D256-10^{E1} Method A

Test Condition:

Specimen width: 4.22mm (Notch preparation: machining)

The capacity of pendulum: 22J

Impact speed: 3.46 m/s

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

Test Result:

Sample	Test Item	Test Result
3	Izod Notched Impact Strength	NB(non-break)

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



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