

No.: SHIN180300826CCM

Date: Jun. 06, 2018

Page: 1 of 15

CUSTOMER NAME: JIANGSU CANLON BUILDING MATERIALS CO., LTD.

ADDRESS: NO.8 HENGTONG RD., QIDU TOWN, WUJIANG DIST., SUZHOU CITY,

215234, CHINA

Sample Name : MBP-P WATERPROOFING MEMBRANE

Product specification : 1.2mm\*1m\*20m

Manufacturer : Jiangsu Canlon 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.

\*\*\*\*\*

Test Required : Please see the next page(s)
Test Method : Please see the next page(s)

Date of Receipt : Mar. 19, 2018
Testing Start Date : Mar. 19, 2018
Testing End Date : Apr. 18, 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 (Shanghai) Co., Ltd.

Erin Huang

Authorized signatory



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No.: SHIN180300826CCM

Date: Jun. 06, 2018

Page: 2 of 15

### Summary of Results:

No.	Test Item	Test Method	Result		Conclusion
1	Overall Thickness	GB/T 328.5-2007	See result		/
2	Puncture Resistance	ASTM E154/E154M- 08a(2013)ε1 Section 10	1210N		/
3	Tensile Test	ASTM D412-16 Method A	See res	ults	/
4	Water Vapor Transmission Rate	ASTM E96/E96M-16 Procedure A	<0.1g/(m²·h)		/
5	Heat Aging Test	GB/T 23457-2009 Section 5.13 & GB/T 328.11-2007 Method B and client's requirement	No slide, flow, dripping or blisters		/
6	Heat Aging Test	GB/T 23457-2009 Section 5.13 & ASTM D412-16 Method A	See result		/
7	Major Composition Qualitative Analysis	ASTM E1252-98(2013) <sup>£1</sup>	Polyethylene (PE)		/
8	Shear Strength	EN 12317-2:2010	687N		/
9	Tear Strength	EN 12310-1:2000	Direction 1 Direction 2	515 N 612 N	/
10	Density	ASTM D1505-10	0.9456 g/cm <sup>3</sup>		/

Note: Pass: Meet the requirements;

Fail: Does not meet the requirements;

/: Not Apply to the judgment.



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No.: SHIN180300826CCM

Date: Jun. 06, 2018

Page: 3 of 15

### Original Sample Photo:







No.: SHIN180300826CCM

Date: Jun. 06, 2018

Page: 4 of 15

1. Test Item: Thickness

Sample Description: See photo Test Method: GB/T 328.5-2007

**Test Condition:** 

Pressure: 20 kPa

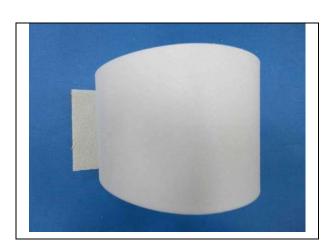
Lab Environmental Condition: (23±2)°C, (50±5)%RH

#### Test Result:

Test Item	Test Result	
Thickness	Total thickness	1.81 mm
THIGHNIESS	Effective thickness	1.02 mm

Note: Test specimens were cut from the sample.

#### Test Photo:





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No.: SHIN180300826CCM

Date: Jun. 06, 2018

Page: 5 of 15

2. Test Item: Puncture Resistance Sample Description: See photo

Test Method: ASTM E154/E154M-08a(2013)ε1 Section 10

Test Condition:

Testing speed: 6mm/min

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

Test Result:

Test Item	Test Result	
Puncture Resistance	1210N	

#### Note:

1) The smooth surface was tested.

2) Test specimens were cut from the sample.



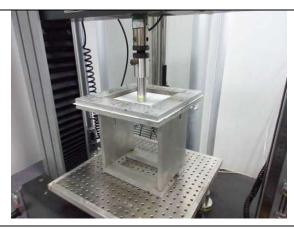


No.: SHIN180300826CCM

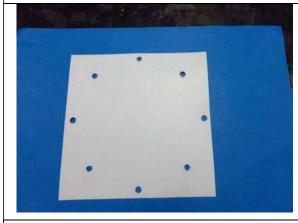
Date: Jun. 06, 2018

Page: 6 of 15

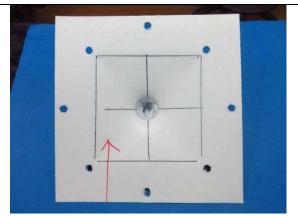
#### Test Photos:



**During test** 







After test



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No.: SHIN180300826CCM

Date: Jun. 06, 2018

Page: 7 of 15

3.Test Item: Tensile Test

Sample Description: See photo

Test Method: ASTM D412-16 Method A

Test Condition:

Specimen: Die C

Total thickness: 1.80 mm
Test pieces thickness:
Direction 1: 0.959 mm
Direction 2: 1.071 mm

Testing speed: 500 mm/min

Gauge length: 25 mm

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

#### Test Result:

Test Item	Test Result	
Tensile Strength	Direction 1	32.2 MPa
Tensile ditengin	Direction 2	31.4 MPa
Tensile Stress at 100% Strain	Direction 1	15.7 MPa
Tensile diress at 100% citain	Direction 2	15.6 MPa
Elongation at Break	Direction 1	555 %
Liongation at broak	Direction 2	611 %

#### Note:

1) Tensile Strength, MPa=F<sub>max</sub>, N / (Width, mm ×Test pieces thickness, mm)

2) Test specimens were cut from the sample.



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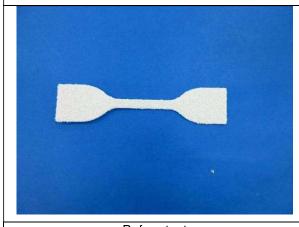
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Page: 8 of 15

#### Test Photos:



**During test** 







After test



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No.: SHIN180300826CCM

Date: Jun. 06, 2018

Page: 9 of 15

4. Test Item: Water Vapor Transmission Rate

Sample Description: See photo

Test Method: ASTM E96/E96M-16 Procedure A

**Test Condition:** 

Specimen thickness: 1.80mm

Transmission area: 0.003317m²

Test condition: 23±2℃, 50±2%RH

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

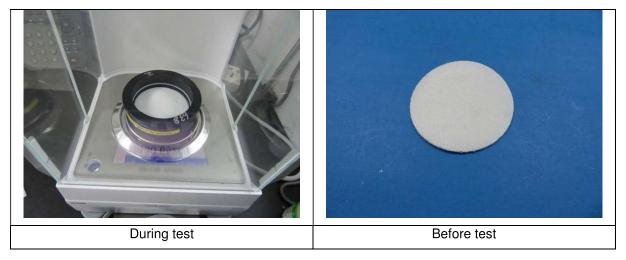
### Test Result:

Test Item	Test Result	
Water Vapor Transmission Rate	<0.1g/(m²·h)	
water vapor transmission hate	(See note 1)	

#### Note:

- 1. The result was below the lower limit of the test method.
- 2. The smooth surface was faced to the cavity with high vapor pressure.
- 3. Test specimens were cut from the sample.

### Test Photos:





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No.: SHIN180300826CCM

Date: Jun. 06, 2018

Page: 10 of 15

Test Item: Heat Aging TestSample Description: See photo

Test Method: With reference to GB/T 23457-2009 Section 5.13 & GB/T 328.11-2007 Method B and

client's requirement

**Test Condition:** 

Heat ageing condition: 70°C, 168h

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

#### Test Result:

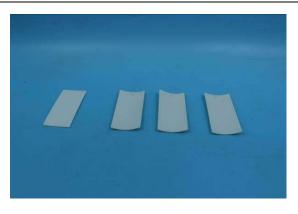
Test Item	Test Result	
Heat Aging Test	No slide, flow, dripping or blisters	

Note: Test specimens were cut from the sample.

#### Test Photos:







Reference sample Tested sample



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No.: SHIN180300826CCM

Date: Jun. 06, 2018

Page: 11 of 15

Test Item: Heat Aging TestSample Description: See photo

Test Method: GB/T 23457-2009 Section 5.13 & ASTM D412-16 Method A

**Test Condition:** 

Heat ageing condition: 70°C, 168h

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

Test Result:

Test Item	Direction	Test Condition	Test Re	sult
		Test Method: ASTM D412-16 Method A	As received	555 %
	1	Specimen: Die C	After heat	005.0/
		Total thickness: 1.870 mm	ageing	625 %
		Test pieces thickness:1.051 mm		
		Testing speed: 500 mm/min	Change rate	+12.6 %
Elongation		Gauge length: 25 mm		
at Break		Test Method: ASTM D412-16 Method A	As received	611 %
		Specimen: Die C	After heat	
	2	Total thickness: 1.863 mm	ageing	587 %
		Test pieces thickness:1.049 mm	0 0	
		Testing speed: 500 mm/min	Change rate	-3.9 %
		Gauge length: 25 mm		

#### Note:

1. Change rate, % = (Value after heat ageing - Value as received)/ Value as received ×100

2. Test specimens were cut from the sample.



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Date: Jun. 06, 2018

Page: 12 of 15

7. Test Item: Major Composition Qualitative Analysis

Sample Description: See photo

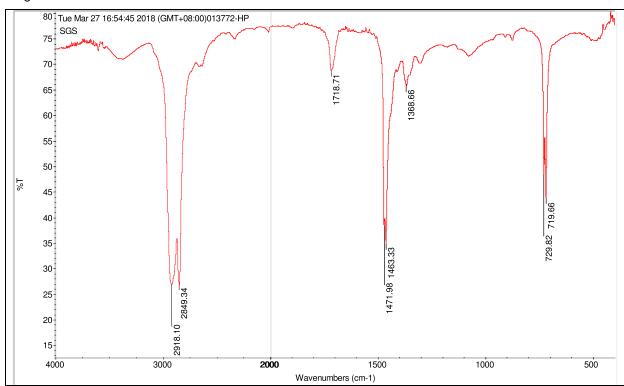
Test Method: ASTM E1252-98(2013)<sup>£1</sup>, analysis was performed by FTIR.

Sample Technique: Hot-pressed film

Test Result:

Sample	Major composition
1	Polyethylene (PE)
	(FTIR spectrum see Fig.1)

### Fig.1





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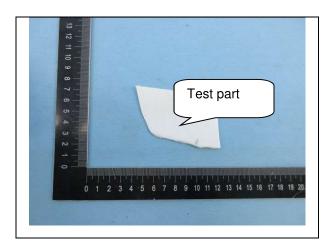


No.: SHIN180300826CCM

Date: Jun. 06, 2018

Page: 13 of 15

Test Photo:







No.: SHIN180300826CCM

Date: Jun. 06, 2018

Page: 14 of 15

8. Test Item: Shear Strength Sample Description: See photo Test Method: EN 12317-2:2010

**Test Condition:** 

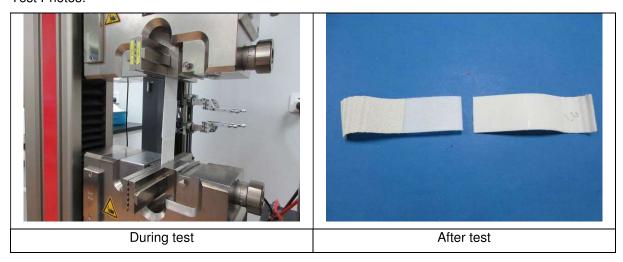
Shear area: 74.4×49.6mm<sup>2</sup> Testing speed: 100mm/min

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

Test Result:

Test Item	Test Result	
Shear Strength	687N	

#### Test Photos:





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No.: SHIN180300826CCM

Date: Jun. 06, 2018

Page: 15 of 15

9. Test Item: Tear Strength

Sample Description: See photo Test Method: EN 12310-1:2000

Test Condition:

Specimen thickness: 1.77 mm Testing speed: 100 mm/min

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

Test Result:

Test Item	Result	
Tear Strength	Direction 1	515 N
real difengin	Direction 2	612 N

Note: Test specimens were cut from the sample.

10. Test item: Density

Sample description: White solid Test method: ASTM D1505-10

Test result:

Test Item	Test Result	
Density	0.9456 g/cm <sup>3</sup>	

Note: Test items 1~2, 4~5,7~8 were performed by SGS other internal laboratory. Test item 9 were carried out by external laboratory assessed as competent.

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



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