



Test Report

No. SHSL1104036570TX

Date: Apr 28, 2011

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ZHEJIANG XINYIDA REINFORCED MATERIAL CO.,LTD
NO.5 LIANHONG ROAD,YUANHUA TOWN,HAINING,ZHEJIANG, CHINA

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

No.	Sample Description	Composition	Colour	End Uses
	PVC fabric	PVC	White	-

Style No. : 1000D 23*23 650 g/m²
Manufacturer : ZHEJIANG XINYIDA REINFORCED MATERIAL CO.,LTD
Sample Receiving Date : Apr 02, 2011
Test Performing Period : Apr 07, 2011 - Apr 28, 2011
Test Performed : Selected tests as requested by applicant
* * * *
Test Result(s) : Please refer to the next page(s).

Signed for and on behalf of
SGS-CSTC Ltd.

Tina Xi

Tina Xi
Account Executive

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Test Results:

Tearing Strength (DIN 53363-2003)

Thickness (mm) 0.51

One direction (N) 456

Another direction (N) 314

Maximum Tensile Force (DIN 53354-1981)

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

Test Condition:

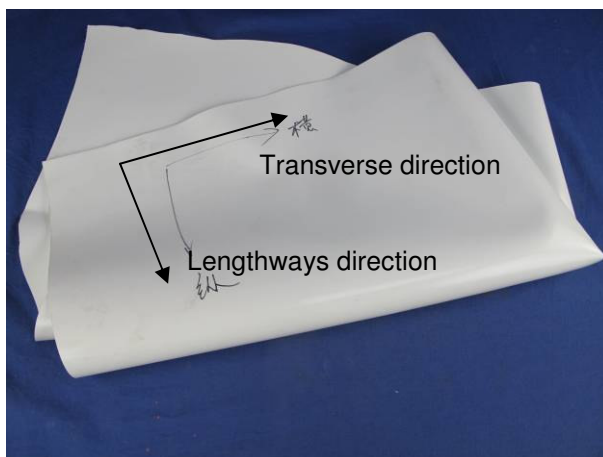
Specimen width: 50mm

Testing speed: 100mm/min

Test Result:

Test Direction	Result
Lengthways direction	2982N
Transverse direction	3265N

Sample Photo:



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Flammability
I. Test conducted

This test was conducted as per DIN 4102-15:1990, DIN 4102-16:1998 and DIN 4102-1:1998 Clause 6.2.
Classification in according to DIN 4102-1 (May 1998) Clause 6.1-Class B1 materials

II. Sample details

General description	PVC
Color / Density	White / approximate 650g/m ²
Size of sample	1000 mm×190 mm & 190 mm×90 mm

Conditioning

Prior to testing, the sample was conditioned at least 14 days to constant mass at a temperature of 23 ± 2 °C, and a relative humidity of 50 ± 6 %.

III. Test results

1) "Brandschacht" Test according to DIN 4102-15 &16

Exposed surface: Front face

Results of "Brandschacht" Test (part 1)				
Line No.	Unit	Test assemblies No.		
		Lengthwise	Widthwise	
1	Specimen fixings according to DIN 4102 part 15, table	/	1	1
2	Max. flame height above lower sample edge;	cm	34	34
3	Time ¹⁾	min:s	0:21	0:23
4	<u>Melting/burning through</u> Time ¹⁾	min:s	0:14	0:15
5	<u>Back of specimen</u> Flaming/glowing, Time ¹⁾	min:s	0.11	0.12
6	Discolouring, Time ¹⁾	min:s	0:12	0.13
7	<u>Burning droplets</u> Begin 1) <u>Amount</u>	min:s	No / /	No / /
8	Specimen material falling off in separate droplets		/	/
9	Specimen material falling off continuously		/	/

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Results of "Brandschacht" Test (part 2)			
Line No.	Unit	Test assemblies No.	
		Lengthwise	Widthwise
	<u>Burning parts</u>	No	No
10	Begin 1)	/	/
11	Parts of sample falling off separately	/	/
12	Parts of sample falling off continuously	/	/
13	Duration of continued combustion on mesh base (max.)	No	No
	<u>Burner flame impairment by dripping/falling material</u>	No	No
14	Time ¹⁾	/	/
	<u>Premature ending of test</u>	/	/
15	End of burning at specimen ¹⁾	/	/
16	Time when test terminated (if applicable) ¹⁾	/	/
	<u>Burning after end of test</u>	No	No
17	Duration	/	/
18	Number of specimens	/	/
19	Front of specimen	/	/
20	Back of specimen	/	/
21	Height of flame	/	/
	<u>Glowing after end of test</u>	No	No
22	Duration	/	/
23	Number of specimens	/	/
24	Front of specimen	/	/
25	Back of specimen	/	/
26	Top half of specimen	/	/
27	Bottom half of specimen	/	/

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Results of "Brandschacht" Test (part 3)					
Line No.	Unit	Test assemblies No.			
		Lengthwise		Widthwise	
	<u>Residual length</u>				
28	Single results	cm	70	69	72 73
29	Average of the single results	cm	71	71	71 72
			70	72	
	<u>Smoke temperature</u>		/	/	
30	Max. of average	°C	129	131	
31	Time ¹⁾	min:s	10:00	10:00	

Note: ¹⁾ time from start of testing

2) Normal Flammability Test according to DIN 4102-1 Clause 6.2

Flame application: [☒] bottom edge ignition, [] surface ignition

[☒] Lengthwise (if applicable)

Specimen No.	1	2	3	4	5
Reaching the measuring mark within 20 seconds	No	No	No	No	No
Self extinguishing of the flame (s)	15	15	15	15	15
Max. flame height (cm)	8	8	7	6	8
End of afterflaming (s)	15	15	15	15	15
End of afterglowing (s)	15	15	15	15	15
Molten dripping	No	No	No	No	No
Smoke developments (visual impression)	Slight				

[☒] Widthwise (if applicable)

Specimen No.	1	2	3	4	5
Reaching the measuring mark within 20 seconds	No	No	No	No	No
Self extinguishing of the flame (s)	15	15	15	15	15
Max. flame height (cm)	7	7	8	7	8
End of afterflaming (s)	15	15	15	15	15
End of afterglowing (s)	15	15	15	15	15
Molten dripping	No	No	No	No	No
Smoke developments (visual impression)	Slight				

All timings are from start of testing

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Comments:

[☒] DIN 4102-B2; [☐] DIN 4102-B3

Criteria for classification for Class B1 (DIN 4102-1 Clause 6.1.2)

All materials, except flooring, may be classed as B1 materials if they met,

a) Pass DIN 4102-16 "brandschacht" test if

- 1) The mean value for the residual length of each specimen is at least 15 cm, and no individual values are lower than 0 cm;
- 2) The mean effluent temperature does not exceed 200°C in any test;
- 3) The requirement for the residual length of each specimen is met even where there is afterflame, afterglow, or smouldering.

b) Pass DIN 4102-1 Clause 6.2.3 Ignitability Test if,

For each specimen, flaming doesn't reach the gage mark within 20s after flame application.

STATEMENTS:

This test report does not replace any mandatory certification of the product that may be required.

The test results relate to the behaviour of the test specimens of a product under the particular conditions of the test; they are not intended to be the sole criterion for assessing the potential fire and smoke hazard of the product in use.

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Photo Appendix:



Conclusion:

The tested sample **meets** the low flammability requirements of class B1 of building materials under DIN 4102-1 (May 1998).

There is no fall-off of burning material.

*** End of Report ***

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