

SL52115271326901TX

Date:July 12,2021



The following sample(s) was/were submitted and identified on behalf of the client as:								
Sample Description	:	(A)Sample(White)						
Sample Color		(A)white						
Style No.	1	S-TFW111818 510gsm						
Proposed Care Instruction	:							
Sample Receiving Date	:	Jun 17, 2021						
Testing Period	:	Jun 17, 2021 - Jul 12, 2021						
Test Result(s)	:	Unless otherwise stated the results shown in this test report refer only to the sample(s) tested, for further details, please refer to the following page(s).						
Test Performed	1	Selected test(s) as requested by applicant						

Signed for and on behalf of SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd Testing Center

Alice War

Alice Wang (Authorized Signatory)



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Test Report *<u>Flammability Test</u> <u>Test Requested</u>:

To determine the flammability (building materials class B1) in accordance with DIN 4102-1 (May 1998) Fire behaviour of building materials and elements Part 1: Classification of building materials, Requirements and testing

Classification: The tested sample meets class B1 building materials requirements of DIN 4102-1 (May 1998).

I. Test conducted

This test was conducted as per DIN 4102-15:1990 & DIN 4102-16:2015 and DIN 4102-1:1998 Clause 6.2, and Classification in according to DIN 4102-1 (May 1998) Clause 6.1-Class B1 materials.

II. Sample details

General description	Film
Color	White
Area Density	506 g/m ²
Size of sample	190mm×1000mm & 190mm×90mm

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 \pm 5 %.

III. Test results

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

Exposed surface: The smooth surface

Results of "Brandschacht" Test (part 1)								
Line			Test assemblies No.					
No.		Unit	Lengthwise	Widthwise				
1	Specimen fixings according to DIN 4102 part 15, table	/	1	1				
2	Max. flame height above lower sample edge;	cm	40	40				
3	Time ¹⁾	min:s	0:09	0:07				
	Melting/burning through		/	1				
4	Time ¹⁾	min:s	0:06	0:05				
	Back of specimen		/	/				
5	Flaming/glowing, Time ¹⁾	min:s	0:04	0:04				
6	Discolouring, Time ¹⁾	min:s	0:03	0:02				
	Burning droplets		No	No				
7	Begin 1)	min:s	/	1				
	Amount		/	1				



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8 Specimen material falling off in separate droplets

9 Specimen material falling off continuously

To be continued...

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Results of "Brandschacht" Test (part 2)							
Line		Linit	Test asse	mblies No.			
No.		Unit	Lengthwise	Widthwise			
	Burning parts		No	No			
10	Begin 1)	min:s	1	1			
11	Parts of sample falling off separately		1	1			
12	Parts of sample falling off continuously		1	1			
13	Duration of continued combustion on mesh base (max.)	min:s	No	No			
	Burner flame impairment by dripping/falling material		No	No			
14	Time ¹⁾	min:s	1	1			
	Premature ending of test		1	1			
15	End of burning at specimen ¹⁾		1	1			
16	6 Time when test terminated (if applicable) ¹⁾		1	1			
	Burning after end of test		No	No			
17	7 Duration		1	1			
18	Number of specimens		1	1			
19	Front of specimen		1	1			
20	Back of specimen		1	1			
21	Height of flame	cm	1	1			
	Glowing after end of test		No	No			
22	Duration	min:s	1	1			
23	23 Number of specimens		1	1			
24	Front of specimen		1	1			
25	Back of specimen		/	/			
26	6 Top half of specimen		/	/			
27	Bottom half of specimen		1	1			

To be continued...



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Test Report

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Results of "Brandschacht" Test (part 3)								
Line No.		Unit	Test assemblies No.					
		Unit	Lengt	hwise	Widthwise			
Residual length				/	/			
28 Single results	Single results	cm	70	72	71	70		
20			68	67	69	73		
29	29 Average of the single results		69.3		70.8			
Smoke temperature			/		1			
30	Max. of average		154.7		164.9			
31	31 Time ¹⁾		06:15		05:45			

Note: 1) time from start of testing

*Reduction in number of test (DIN 4102 Part 16, clause 5.2)

Class B1 materials:

If the residual length measured after the first test is 45cm or greater, further tests are not required.

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

Edge ignition

Fire application time: 15s

Parameter		Lengthwise				Crosswise				
		2	3	4	5	6	7	8	9	10
Whether or not flaming extinguished before reach the gauge mark(Yes/No)		Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Whether or not flaming reach the measuring mark within 20 seconds (Yes/No)		No	No	No	No	No	No	No	No	No
Time for the flame tip to reach the gauge mark(s)		NA	NA	NA	NA	NA	NA	NA	NA	NA
Afterflame time (s)		0	0	0	0	0	0	0	0	0
Max. flame height (cm)		9	5	4	7	7	6	8	7	6
Molten dripping (Yes/No)		No	No	No	No	No	No	No	No	No
Smoke developments (visual impression)		Slight Slight								

Note: NA---Not applicable

To be continued...



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Test Report SL52115271326901TX Date:July 12,2021 IV. DIN 4102-1:1998 Criteria for classification

- All materials, except flooring, may be classed as **B1** materials if they meet the following requirements a) and b):
- a) The test using the 'Brandschacht' apparatus described in DIN 4102-15 (cf. subclause 6.1.3.1) shall be deemed passed if
- The mean value for the residual length (portion of specimen that has not burned or charred; cf. subclause
- 9.1 of DIN 4102-16) of each specimen is at least 15 cm and no individual values are lower than 0 cm,
- The mean effluent temperature does not exceed 200 °C in any test,

– The requirement for the residual length of each specimen is met even where there is afterflame, afterglow, or smouldering.

- b) Pass DIN 4102-1: 1998 sub-clause 6.2.3 Ignitability Test if
- For each specimen, flaming doesn't reach the gage mark within 20s after flame application.
- Materials may be classed as B2 materials if they pass the ignitibility test specified in DIN 4102-1: 1998 subclause 6.2.5.
- For each specimen, flaming doesn't reach the gage mark (150mm marks) within 20s after flame application.
- 3) Combustible materials which cannot be classed as B1 or B2 materials shall be classed as **B3** materials.

STATEMENTS:

This declaration of conformity is only based on the result of this laboratory activity, the impact of the uncertainty of the results was not included.

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.

*The test was carried out by SGS Anji Flammability laboratory.

Photo Appendix:



End of Report



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