







中国认可 国际互认 检测 **TESTING CNAS L4743**

Test Report

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The following sample(s) was / were submitted and identified on behalf of the client. SGS is not responsible for the authenticity, integrity and results of the data and information and / or the validity of the conclusion. results apply to the sample as received.

Sample Description:

Color: WHITE Style/Item No.: /

Test Requested:

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

Test Results: -- See attached sheet -

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

1998).

Test Period:

Sample Receiving Date : OCT.23, 2019

Test Performing Date : OCT.23, 2019 TO NOV.06, 2019

Signed for and on behalf of SGS-CSTC Co., Ltd. Anji Branch

Allen Zou Lab Manager







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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, and Classification in according to DIN 4102-1 (May 1998) Clause 6.1-Class B1 materials.

II. Sample details

General description	Fabric
Color	White
Area Density	113 g/m²
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 \pm 2 °C, and a relative humidity of 50 \pm 6 %.

III. Test results

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

Exposed surface: The front face

Results of "Brandschacht" Test (part 1)							
Line		Unit	Test assemblies No.				
No.		Offic	Lengthwise	Widthwise			
1	Specimen fixings according to DIN 4102 part 15, table	1	1	1			
2	Max. flame height above lower sample edge;	cm	20	20			
3	Time 1)	min:s	0:12	0:10			
	Melting/burning through		1	1			
4	Time 1)	min:s	0:03	0:03			
	Back of specimen		1	1			
5	Flaming/glowing, Time 1)	min:s	0:04	0:04			
6	Discolouring, Time 1)		0:01	0:01			
	Burning droplets		No	No			
7	Begin 1)	min:s	/	/			
	<u>Amount</u>		/	/			
8	Specimen material falling off in separate droplets		/	/			
9	Specimen material falling off continuously		/	/			

To be continued...



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	Results of "Brandscha	acht" Test	t (part 2)			
Line		Unit	Test assemblies No.			
No.		Offic	Lengthwise	Widthwise		
	Burning parts		No	No		
10	Begin 1)	min:s	1	/		
11	Parts of sample falling off separately		1	1		
12	Parts of sample falling off continuously		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)	min:s	1	1		
16	Time when test terminated (if applicable) 1)	min:s	1	1		
	Burning after end of test		No	No		
17	Duration	min:s	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	Number of specimens		1	1		
24	Front of specimen		1	1		
25	Back of specimen		/	1		
26	Top half of specimen		/	/		
27	Bottom half of specimen		1	1		

To be continued...



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Results of "Brandschacht" Test (part 3)									
Line		Unit	Test assemblies No.						
No.			Lengt	hwise	Widthwise				
	Residual length		/		1				
28 Single re	Single results	cm	69	71	71	70			
	Olligie results		70	70	71	72			
29	Average of the single results	cm	70.0		71.0				
	Smoke temperature		/		/				
30	Max. of average	$^{\circ}$	121.4		120.6				
31	Time 1)	min:s	9:48		9:07				

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Note: 1) time from start of testing

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

Doromotor	Lengthwise					Crosswise				
Parameter		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	Yes
Whether or not flaming reach the measuring mark within 20 seconds (Yes/No)	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	NA
Afterflame time (s)	0	0	0	0	0	0	0	0	0	0
Max. flame height (cm)	6	4	7	5	6	4	6	4	3	5
Molten dripping (Yes/No)	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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^{*}Reduction in number of test (DIN 4102 Part 16, clause 5.2)



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IV. DIN 4102-1:1998 Criteria for classification

- 1) 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.

2) 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.

To be continued...



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**Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (85-755) 8307



Photo Appendix:

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SGS authenticate the photo on original report only

*** End of Report ***



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