

MOSAROMA INTERNATIONAL CO., LTD.
7F, BLISSFUL BUILDING, 243-247, DES VOEUX ROAD, CENTRAL, HONG KONG

Sample Description : 100% SOLUTION-DYDE POLYESTER (AXVISION)
 Style No. : 15243109
 Item No. : 100%OUTDOOR FABRICS
 SKU No. : 15243109F
 Country of Origin : CHINA
 Country of Destination : GERMANY

As above test item and its relevant information regarding to the submission are provided and confirmed by the applicant. SGS is not liable to either the test item or its relevant information, in terms of the accuracy, suitability, reliability or/and integrity accordingly.

SGS Ref No. : SDFTS26000892R01_EN
 Sample Receiving Date : Jan 31, 2026
 Test Performing Date : Feb 02, 2026 to Feb 28, 2026
 Test Performed : Selected test(s) as requested by applicant

Test Result Summary

No.	Test(s) Requested	Result(s)	Comments
1	DIN 4102-1:1998-05 Fire behaviour of building materials and building components Part 1: Classification of building materials, Requirements and testing, Class B1 materials---For all materials except flooring.	The tested sample meets class B1 materials requirements of DIN 4102-1: 1998-05.	/
For further details, please refer to the following page(s)			

Signed for and on behalf of
SGS-CSTC Standards Technical Services Co., Ltd. Shunde Branch

Marco Leung

Marco Leung
Authorized Signatory



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I. Test conducted

This test was conducted as per DIN 4102-15:1990 Fire behaviour of building materials and building components – ‘Brandschacht’ apparatus, DIN 4102-16:2021 Fire behaviour of building materials and building components – ‘Brandschacht’ tests and DIN 4102-1:1998-05 Clause 6.2.5 and Classification according to DIN 4102-1:1998-05 Clause 6.1 Class B1 materials.

II. Sample details

General description	Fabric
Area Density	445 g/m ²
Size of sample	190mm×1000mm & 190mm×90mm & 230mm x 90mm
Exposed (tested) surface	Marked surface

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 ± 5 %.

Installation Information

The sample was directly mechanically fixed on the sample holder without substrate.

III. Test results

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

Results of “Brandschacht” Test					
Line No.	Unit	Test assemblies No.			
		1 Lengthwise	2 Crosswise	/	
1	Specimen fixings according to DIN 4102 part 15, table	-	/	/	
2	Max. flame height above lower sample edge;	cm	45	51	
3	Time ¹⁾	min:s	01:26	01:20	
4	<u>Melting/burning through</u> Time ¹⁾	min:s	00:27	00:31	
5	<u>Back of specimen</u> Flaming/glowing, Time ¹⁾	min:s	00:20	00:21	
6	Discolouring, Time ¹⁾	min:s	00:06	00:06	
7	<u>Burning droplets</u> Begin ¹⁾	min:s	No	No	
8	<u>Amount</u> Specimen material falling off in separate droplets		/	/	



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Results of "Brandschacht" Test						
Line No.	Unit	Test assemblies No.				
		1 Lengthwise		2 Crosswise		/
9	Specimen material falling off continuously	/	/	/	/	
10	<u>Burning parts</u> Begin ¹⁾	No	No	/	/	
11	Parts of sample falling off separately	/	/	/	/	
12	Parts of sample falling off continuously	/	/	/	/	
13	Duration of continued combustion on mesh base (max.)	min:s	/	/	/	
14	<u>Burner flame impairment by dripping/falling material</u> Time ¹⁾	No	No	/	/	
15	<u>Premature ending of test</u> End of burning at specimen ¹⁾	No	No	/	/	
16	Time when test terminated (if applicable) ¹⁾	min:s	/	/	/	
17	<u>Burning after end of test</u> Duration	No	No	/	/	
18	Number of specimens	/	/	/	/	
19	Front of specimen	/	/	/	/	
20	Back of specimen	/	/	/	/	
21	Height of flame	cm	/	/	/	
22	<u>Glowing after end of test</u> Duration	No	No	/	/	
23	Number of specimens	/	/	/	/	
24	Front of specimen	/	/	/	/	
25	Back of specimen	/	/	/	/	
26	Top half of specimen	/	/	/	/	
27	Bottom half of specimen	/	/	/	/	
28	<u>Smoke density</u> ≤ 400 %×min	/	/	/	/	
29	> 400 %×min	/	/	/	/	
30	<u>Residual length</u> Single results	cm	51	60	49	58



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Results of "Brandschacht" Test								
Line No.	Unit	Test assemblies No.						
		1 Lengthwise		2 Crosswise		/		
31	Average of the single results	cm	55	54	55	50		
			55		53			
32	<u>Smoke temperature</u> Max. of average	°C	/		/			
33	Time ¹⁾	min:s	96		94			
			01:46		01:50			

Note: ¹⁾ time from start of testing

*Reduction in number of test (*DIN 4102 Part 16, clause 6.2*)

Class B1 materials:

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

2) Ignitibility test according to DIN 4102-1 Clause 6.2.5

a) Surface ignition

Fire application time: 15s

Parameter	Lengthwise					Crosswise				
	1	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	7	8	8	9	9	8	7	7	8
Molten dripping (Yes/No)	No	No	No	No	No	No	No	No	No	No
Smoke developments (visual impression)	Slight smoke					Slight smoke				



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b) Edge ignition

Fire application time: 15s

Parameter	Lengthwise					Crosswise				
	1	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	5	5	5	4	5	5	4	5
Molten dripping (Yes/No)	No	No	No	No	No	No	No	No	No	No
Smoke developments (visual impression)	Slight smoke					Slight smoke				

Note: NA---Not applicable

IV. Conclusion

DIN 4102-1 B1

V. 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 10.1 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 6.2.5 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 ignitability 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.



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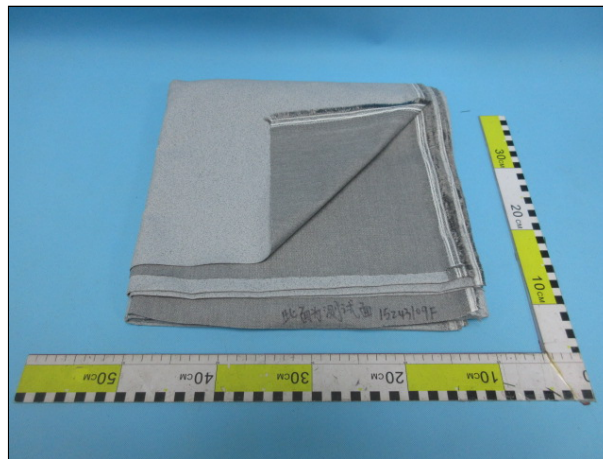
STATEMENTS:

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.

Photo Appendix:



End of Report



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