

Test Report No. SL618062887152TX Date: Nov 17, 2018 Page 1 of 6

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

Sample Description : One sample of 300D Polyester with PVC coating fabric in black

Sample Receiving Date : Oct 25, 2018

Test Performing Period : Oct 30, 2018 - Nov 17, 2018

Test Performed : Selected tests as requested by applicant.

* * *

Test Result(s) : Please refer to the next page(s).

Conclusion(s)

Flammability Test M

Remark(s) : M = Meet General Requirement

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

Jack Thomas

Jack Zhang (Account Executive)



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Test Report No. SL618062887152TX Date: Nov 17, 2018 Page 2 of 6

Test Result:

Flammability Test ^

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

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	Black
Density	About 347 g/m ²
Size of sample	1000mm×190mm & 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



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Test Report

No. SL618062887152TX

Date: Nov 17, 2018 Page 3 of 6

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		
2	Max. flame height above lower sample edge;		50	50		
3	Time 1)		00:10	00:12		
	Melting/burning through	•	/	/		
4	Time 1)	min:s	00:04	00:03		
	Back of specimen	•	/	/		
5	Flaming/glowing, Time 1)	min:s	00:04	00:03		
6	Discolouring, Time 1)	min:s	00:02	00:02		
	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		/	/		

Line		Unit	Test assemblies No.		
No.		Offic	Lengthwise	Widthwise	
	Burning parts	Çe)	No	No	
10	Begin 1)	min:s	/	/	
11	Parts of sample falling off separately		1	1	
12	Parts of sample falling off continuously		/	/	
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	



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Test Report No. SL618062887152TX		Date: Nov 17, 2018		Page 4 of 6
	Premature ending of test		/	/
15	End of burning at specimen 1)	min:s	/	/
16	Time when test terminated (if applicable) 1)	min:s	/	/
	Burning after end of test		No	No
17	Duration	min:s	/	/
18	Number of specimens		/	/
19	Front of specimen		/	/
20	Back of specimen		/	/
21	Height of flame	cm	/	/
	Glowing after end of test	•	No	No
22	Duration	min:s	/	/
23	Number of specimens		/	/
24	Front of specimen		/	/
25	Back of specimen		/	/
26	Top half of specimen		/	/
27	Bottom half of specimen		/	/

Line		Unit	Test assemblies No.				
No.	44	Offit	Lengthwise /		Widthwise /		
	Residual length						
28	Single results	cm	58	61	60	61	
20	26 Single results	CIII	56	58	57	54	
29	Average of the single results	cm	58.3		58.0		
	Smoke temperature		1		1		
30	Max. of average	°C	157.3		156.8		
31	Time 1)	min:s	05:28		05:33		

Note: 1) time from start of testing

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



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Test Report No. SL618062887152TX Date: Nov 17, 2018 Page 5 of 6

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	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)	5	5	7	8	7	8	5	5	7	7
Molten dripping(Yes/No)	No	No	No	No	No	No	No	No	No	No
Smoke developments (visual impression)	Slight					Slight				

Note:

NA---Not applicable

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):
- 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.



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Test Report

No. SL618062887152TX

Date: Nov 17, 2018

Page 6 of 6

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 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.

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

^This test was carried out by SGS Anji Laboratory







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