TEST REPORT

PAPERGRAPHICS LIMITED

DIVA INNOVATION CENTRE, CROMPTON WAY, CRAWLEY, WEST SUSSEX, RH10 9QR, UNITED KINGDOM

Sample Description	:	TISSARO LUXE
Style/Item No.	:	F/LUXE

The above sample(s) data and information 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 arising therefrom. Results apply to the sample as received.

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SGS Ref. No.	:	AJHL2412005949FT
Date of Receipt	:	Dec 17,2024
Testing Period	:	Dec 17,2024 to Jan 06,2025
Test Required	:	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.
Test result(s)	:	See attached sheet
Conclusion	:	The tested sample **meets** class **B1** materials requirements of DIN 4102-1:1998-05.

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

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AJFTS24000006R01
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Echo Li
Approved 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
Color	White
Area Density	220 g/m^2
Size of sample	190mm×1000mm & 190mm×90mm & 230mm×90mm
Exposed (tested) surface	Any 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 %.

III. Test results

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

Results of "Brandschacht" Test (part 1)				
Line No.		Unit	Test direction	
			Lengthwise	Widthwise
1	Specimen fixings according to DIN 4102 part 15, table	/	/	/
2	Max. flame height above lower sample edge;	cm	30	30
3	Time 1)	min:s	00:48	00:45
	Melting/burning through		Yes	Yes
4	Time 1)	min:s	00:02	00:02
	Back of specimen		Yes	Yes
5	Flaming/glowing, Time 1)	min:s	00:02	00:02
6	Discolouring, Time 1)	min:s	00:01	00:01
	Burning droplets		Yes	Yes
7	Begin 1)	min:s	00:05	00:06
	Amount		/	/
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 direction	
			Lengthwise	Widthwise
	Burning parts		No	No
10	Begin 1)	min:s	/	/
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	No	No
	Burner flame impairment by dripping/falling material		No	No
14	Time [1)]	min:s	/	/
	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		/	/
	Smoke density		Yes	Yes
28	≤ 400 %×min		√	√
29	＞ 400 %×min		/	/

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Results of "Brandschacht" Test (part 3)						
Line No.		Unit	Test direction			
			Lengthwise		Widthwise	
	Residual length		/		/	
30	Single results	cm	73	71	71	71
			72	74	72	73
31	Average of the single results	cm	72.5		71.7	
	Smoke temperature		/		/	
32	Max. of average	℃	127		130	
33	Time 1)	min:s	03:11		03:08	

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					Widthwise				
	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)	15	16	17	15	14	0	0	0	0	0
Max. flame height (cm)	10	10	11	10	11	3	5	3	4	3
Molten dripping (Yes/No)	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Smoke developments (visual impression)	Slight					Slight				

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b) Edge ignition

Fire application time: 15s

Parameter	Lengthwise					Widthwise				
	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)	16	15	17	16	16	0	0	0	0	0
Max. flame height (cm)	10	9	11	11	10	3	4	3	3	4
Molten dripping (Yes/No)	Yes	Yes	Yes	Yes	Yes	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):

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 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.

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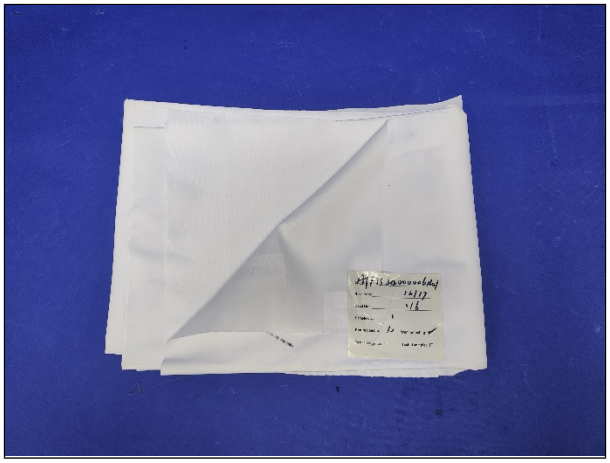
STATEMENTS:

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:



SGS authenticate the photo on original report only

*** End of Report ***

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