

Sample Description : FOAM

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SGS Ref No. : SDFTS25000474R01_EN

Sample Receiving Date : Jan 17, 2025

Test Performing Date : Jan 17, 2025 to Jan 24, 2025

Test Performed : Selected test(s) as requested by applicant

Test Result Summary

No.	Test(s) Requested	Result(s)	Comments
1	Schedule 1 Part I of Furniture and Furnishings (Fire) (Safety) Regulations 1988 With Amendments In 1989, 1993 and 2010 of United Kingdom	PASS	/

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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Test Conducted:

The Test, Specified in Schedule 1 Part I of the Furniture and Furnishings (Fire) (Safety) Regulations, is based on BS 5852: Part 2: 1982.

To assess the ignitability of polyurethane foam in slab used in upholstered components when subjected to ignition source 5.

General Information:

Materials	Foam	Density	Approximately 34.0 kg/m ³
Specified Thickness of Specimen	(75±2) mm	Actual Thickness of Specimen	75 mm

Precondition	Indoor Ambient Condition		72 h
Conditioning of Test Specimen and Ignition Source(s)	Temperature: (23±2) °C; Relative Humidity: (50±5) % Duration: 24 h;		
Testing Enclosure (fume cupboard / room)	21.2 °C	RH 51 %	---

Test Results:

The following test results relate only to the ignitability of the combination of materials under the particular condition of test. They are not intended as a means of assessing the full potential fire hazard of the materials or products in use.

Test Criteria	Results	
	1 st test	2 nd test
(A) Progressive smouldering (Clause 4.1 of BS 5852: Part 2: 1982)		
4.1 b) Any composite that product externally detectable amounts of smoke, heat or glow 60 min after ignition of the crib.	NO	NO
4.1 c) Any composite that displays escalating combustion behaviour so that it is unsafe to continue the test and requires forcible extinction.	NO	NO
4.1 d) Any composite that smoulders until it is essentially consumed within the test duration relevant to the source	NO	NO
4.1 e) Any composite that smoulders to the extremities of the specimen viz upper or lower margins, either side or to its full thickness, within the duration of the test.	NO	NO
4.1 f) Any composite that, on the final examination, shows evidence of charring other than discolouration, more than 100 mm in any direction apart from upwards from the nearest part of the original position of the source.	NO	NO



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Test Criteria	Results	
	1 st test	2 nd test
(B) Flaming (Clause 4.2 of BS 5852: Part 2 :1982)		
4.2 b) Any composite that continues to flame for more than 10 minutes after the ignition of the crib.	NO	NO
4.2 d) Any composite that displays escalating combustion behaviour so that it is unsafe to continue the test and forcible extinction is required.	NO	NO
4.2 e) Any composite that burns until it is essentially consumed within the test duration relevant to the source.	NO	NO
4.2 f) Any composite on which any flame front reaches the lower margin, either side or passes through the full thickness of the specimen within the duration of the test.	NO	NO
(C) Mass Loss (Clause 5 in Schedule 1 Part1 of UK Regulations)		
If failure against the criteria of clause 4 of BS 5852:Part 2 has occurred but only by way of damage exceeding the limits defined in clause 4.1(e), 4.1(f) and 4.2(f) and provided that the resultant mass loss is less than 60g the foam passes the ignitability test.	28 g	31 g

Test Details:

The cover materials for this test were 100 percent flame retardant polyester fibres specified in Schedule 1, Part I of the Regulations.

Test No.		1 st	2 nd
Duration of	Ignition source (min, sec)	02min53s	02min46s
	Flames (min, sec)	03min44s	03min21s
	Smoke (min, sec)	08min38s	08min13s
Extent of damage of horizontal component	Foam - Width (mm)	132	138
	Foam - Length (mm)	146	152
	Foam - Depth (mm)	58	53
Extent of damage of vertical component	Foam - Length (mm)	152	161
	Foam - Depth (mm)	31	39
The initial mass of the sample composite (g)		7620	7617
The final mass of sample composite(g)		7592	7586
The final mass loss of the composite(g)		28	31

Conclusion: PASS

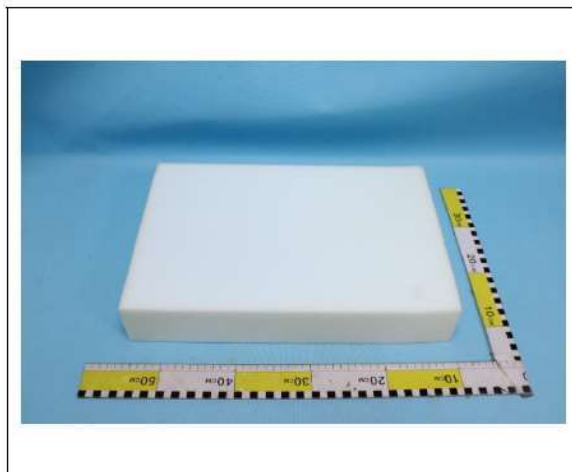


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Photo Appendix:



End of Report



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