



## Test Report

No.: XMHL2405002562FT

Date: May 14, 2024

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JIAXING HIFINE INTERNATIONAL ENTERPRISE CO.,LTD  
NO.233 CHANGAN ROAD N, JIAXING, ZHEJIANG,China

Sample Description : sponge  
Manufacturer : JIAXING HIFINE INTERNATIONAL ENTERPRISE CO.,LTD  
Supplier : JIAXING HIFINE INTERNATIONAL ENTERPRISE CO.,LTD  
Country of Origin : China  
Country of Destination : China

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. : SDFS2405003057FF  
Sample Receiving Date : May 06, 2024  
Test Performing Date : May 06, 2024 to May 14, 2024  
Test Performed : Selected test(s) as requested by applicant  
Test Result(s) : For further details, please refer to the following page(s)



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SGS-CSI Standards Technical Service Co., Ltd.  
Xiamen Branch

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### 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. Xiamen Branch

Terry Hong  
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 32.7 kg/m <sup>3</sup>
Specified Thickness of Specimen	(75±2) mm	Actual Thickness of Specimen	76 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)	25.6 °C	RH 63 %	---

### 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 <sup>st</sup> test	2 <sup>nd</sup> test
<b>(A) Progressive smouldering</b> (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 <sup>st</sup> test	2 <sup>nd</sup> test
<b>(B) Flaming</b> (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
<b>(C) Mass Loss</b> (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.	33 g	39 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 <sup>st</sup>	2 <sup>nd</sup>
Duration of	Ignition source (min, sec)	02min45s	02min51s
	Flames (min, sec)	03min42s	04min14s
	Smoke (min, sec)	07min48s	08min06s
Extent of damage of horizontal component	Foam - Width (mm)	122	130
	Foam - Length (mm)	175	182
	Foam - Depth (mm)	57	60
Extent of damage of vertical component	Foam - Length (mm)	126	132
	Foam - Depth (mm)	50	54
The initial mass of the sample composite (g)		7613	7606
The final mass of sample composite(g)		7580	7567
The final mass loss of the composite(g)		33	39



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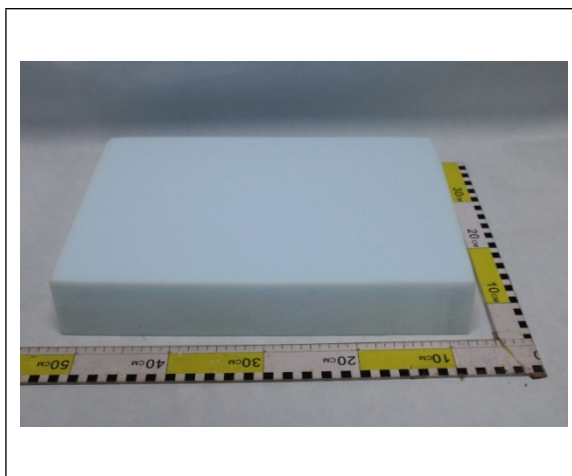
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### Conclusion: PASS

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Remark: This test was subcontracted to Shunde Branch, SGS-CSTC Co., Ltd.

### Photo Appendix:



\*\*\*End of Report\*\*\*



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