



**Test Report**

No. GZSL1010059321TX

Date: Oct 21, 2010

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XIAMEN COMFORT SCIENCE&TECHNOLOGY GROUP CO.,LTD  
18 LONGSHAN SOUTH ROAD,XIAMEN,FUJIAN PRONICE, 361009 CHINA

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

One sample of foam in slight yellow.

Foam Density : 36.5kg/ m<sup>3</sup>

Foam is used on : SBM series、MCS series、QRM series、MMP-200、SP-10H、  
SP-39H、CBS-1000、NSP-NP200 etc.

Sample Receiving Date : Oct 11, 2010

Test Performing Period : Oct 11, 2010 - Oct 21, 2010

Test Required : In accordance with Schedule 1 Part I of Furniture and  
Furnishings (Fire) (Safety) Regulations 1988 With Amendments  
In 1989, 1993 and 2010 of United Kingdom.

\* \* \* \*

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

Comments / Conclusion : **PASS:** After performing the following tests, the submitted sample met the  
requirements of Schedule 1 Part I .

Signed for and on behalf of  
SGS-CSTC Ltd.

Echo Zhou  
Section Head

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Test Report – Picture Page

Sample



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**Test Result:**

**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 / Color	Foam / Slight Yellow	Density	36.5 kg/m <sup>3</sup>
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)	(23±2) °C	RH (50±5) %	24 h
Testing Enclosure (fume cupboard / room)	27 °C	RH 57 %	---

**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)		
① Any composite that produces externally detectable amounts of smoke, heat or glowing 60 minutes after ignition of the crib.	NO	NO
2 Any composite that displays escalating combustion behaviour so that it is unsafe to continue the test and requires forcible extinction.	NO	NO
3 Any composite that smoulders until it is essentially consumed within the test duration relevant to the source.	NO	NO
4 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
5 Any composite that, on final examination, shows evidence of charring other than discolouration, more than 100mm in any direction apart from upwards from the nearest part of the original position of the source.	NO	NO

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<b>(B) Flaming</b> (Clause 4.2 of BS 5852: Part 2 :1982)		
① Any composite that continues to flame for more than 10 minutes after the ignition of the crib	NO	NO
② Any composite that displays escalating combustion behaviour so that it is unsafe to continue the test and forcible extinction is required.	NO	NO
③ Any composite that burns until it is essentially consumed within the test duration relevant to the source	NO	NO
④ Any composite on which any flame front reaches the lower margins, 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 A 4, ⑤ and B 4 above and provided that the resultant mass loss is less than 60g the foam passes the ignitability test	24g	28g

**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	Ignition Source	Duration of			Extent of Damage Component (mm)			Comments and Observations
		Ignition Source	Flames	Smoke	Width	Length	Depth	
1 <sup>st</sup>	5	2min21s	3min30s	6min40s	47	69	70	#1
2 <sup>nd</sup>	5	2min27s	3min34s	6min47s	51	69	71	#1

Remark: N/A--Not Applicable; N/C--Not Conduct;  
 #1--Flaming but self-extinguishment;  
 #2--Flaming and essentially consumed;  
 #3--Extinguished by operator, escalating flaming combustion;  
 #4--The first test failed, so retest was not conducted.

**Conclusion: PASS**

The above test was conducted in SGS SD.

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

