

ACCESS OFFICE INDUSTRIES  
10 LIDDELOW STREET KENWICK W.A,6107,AUSTRALIA

Sample Description : PU, FOAM  
 Item No. : PU: 711-01-10, FOAM  
 Client Reference Information : DEYI FURNITURE MANUFACTURE CO. LTD.  
 P.O. / Ref. No. : 15418  
 Manufacturer : DEYI FURNITURE MANUFACTURE CO. LTD.  
 Country of Origin : CHINA  
 Country of Destination : AUSTRALIA

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.

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SGS Ref No. : SDFS2106003542FF  
 Sample Receiving Date : Jun 04, 2021  
 Test Performing Date : Jun 04, 2021 to Jun 15, 2021  
 Test Performed : Selected test(s) as requested by applicant

**Test Result Summary**

No.	Test(s) Requested	Result(s)	Comments
1	Medium hazard in BS 7176:2007+A1:2011 Specification for resistance to ignition of upholstered furniture for non-domestic seating by testing composites	PASS	Clause 5 and 6 weren't checked.

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



Bill Wang  
Authorized Signatory



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**Test Conducted:**

These tests are conducted in medium hazard of BS 7176:2007+A1:2011 according to the application, and the test methods are based on BS EN 1021-1 & 2:2006, BS 5852:2006 Clause 11 and BS5852-part 2:1982.

**I Sample Details**

Components:	Visible Cover	Filling
Materials:	Leatherette	Foam
Weight & Density of sample:	1.62 kg/m <sup>2</sup>	82.0 kg/m <sup>3</sup>

**II Precondition and Test Condition**

Soaking Condition	<input checked="" type="checkbox"/> YES (All outer covers and inner covers that have been chemically treated to reduce their ignitability shall be subjected to the water soaking and drying procedure specified in BS 5852:2006, Annex E prior to being conditioned.)		
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):	26.3 °C	RH 61 %	---

**III Test Results**

Clause	Principle /Requirement	Result
	Performance requirements for resistance to ignition	
	4.1 Ignitability <b>Medium hazard</b>	
4	4.1.1 The composite shall meet the levels of ignition resistance Medium hazard Composite test. a) Smouldering cigarette as specified in BS EN 1021-1:2006.(See Annex I, A) b) Match flame equivalent as specified in BS EN 1021-2:2006.(See Annex I, B) c) Ignition source 5 as specified in BS 5852:2006, Clause 11(See Annex I, C)	a): PASS b): PASS c): PASS
	4.1.2 All filling materials for all hazard categories shall pass the relevant test: Polyurethane foam in block or cushion form shall pass the relevant test contained in the Annex A.(See Annex II)	PASS
5	Sampling and frequency of testing Each upholstery composite shall be tested in accordance with the relevant tests identified in Table 1 for the appropriate hazard category every 2 500 units produced or once per month. Retesting shall be carried out where there is any major basic alteration to a furniture specification.	N/P
6	Labeling And Identification Each unit of upholstered furniture shall carry a permanently attached and clearly readable label (see Figures 1 to 4). The size of the graphic part of the label shall be not less than 50 mm × 50 mm. The base colour of the label shall be white with a green border. The word “RESISTANT” shall be white and of minimum height 5 mm. The smouldering cigarette flaming match, flame and ignition source number(s) shall be black. “Conforms to BS 7176:2007 for medium hazard (not recommended for use in higher hazard areas)” shall appear on the label. The letters of the wording shall be easily legible and of minimum height 2 mm.	N/P



**Annex I: Details of Composite Test**

**Test Results:**

The following test results relate only to the ignitability of the sample or 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.

**(A) BS EN1021-1:2006 Furniture – Assessment of the ignitability of upholstered furniture  
Part 1: Ignition source smouldering cigarette**

Test Criteria	Results	
	1 <sup>st</sup>	2 <sup>nd</sup>
<b>(A) Progressive Smouldering Ignition</b>		
① Any test assembly displays escalating combustion behaviour so that it is unsafe to continue the test;	NO	NO
② Any test assembly smoulders until it is largely consumed within the test duration;	NO	NO
③ Any test assembly 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 Any test assembly smoulders after one hour from the beginning of the test;	NO	NO
⑤ Whether the test assembly that, on final examination, shows evidence of active smouldering;	NO	NO
<b>(B)Flaming Ignition</b>		
The occurrence of any flames initiated by a smouldering source	NO	NO
<b>(C) Final Examination</b>		
Immediately after completion of the test programme on the assembly, dismantle it and examine it internally for progressive smouldering ignition, if this is found, extinguish the test assembly, and record an ignition.	No Ignition	

**Test Details:**

Test	Ignition Source	Time to Extinction after Placement of the Cigarette		Comments and Observations
		Flame Ceased Time	Smoking Ceased Time	
1 <sup>st</sup>	0	0 s	18 min 27 s	#2
2 <sup>nd</sup>	0	0 s	19 min 06 s	#2

**Sub–Conclusion: PASS**



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**(B) BS EN 1021-2:2006 Furniture – Assessment of the ignitability of upholstered furniture  
Part 2: Ignition source match flame equivalent**

Test Criteria	Results		
	1 <sup>st</sup>	2 <sup>nd</sup>	3 <sup>rd</sup>
<b>(A) Progressive Smouldering Ignition</b>			
① Any test assembly displays escalating combustion behaviour so that it is unsafe to continue the test and active extinction is necessary	NO	NO	NO
② Any test assembly smoulders until it is largely consumed within the test duration	NO	NO	NO
③ Any test assembly 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	NO
④ Any test assembly smoulders after one hour from the beginning of the test	NO	NO	NO
⑤ Any test assembly, on final examination, shows evidence of active smouldering	NO	NO	NO
<b>(B) Flaming Ignition</b>			
① Any test assembly displays escalating combustion behavior so that it is unsafe to continue the test and active extinction is necessary	NO	NO	NO
② Any test assembly burns until it is essentially consumed within the test duration	NO	NO	NO
③ Any test assembly on which any flame front reaches the lower merge, either side or passes through its full thickness within the duration of the test.	NO	NO	NO
④ Any flaming which continues for more than 120s after removal of the burner tube.	NO	NO	NO
<b>(C) Final Examination</b>			
Immediately after completion of the test programme on the assembly, dismantle it and examine it internally for progressive smouldering ignition, if this is found, extinguish the test assembly, and record an ignition.	No Ignition		

**Test Details:**

Test	Ignition Source	Ignition Time	Time to Extinction after Removal of the Burner(second)		Comments and Observation
			Flame Ceased Time	Smoking Ceased Time	
1 <sup>st</sup>	1	(15±1)s	0	15	#3
2 <sup>nd</sup>	1	(15±1)s	0	12	#3
3 <sup>rd</sup>	1	(15±1)s	0	13	#3

**Sub – Conclusion: PASS**



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**(C) BS 5852:2006 Methods of test for assessment of the ignitability of upholstered seating by smouldering and flaming ignition sources (using ignition source 5)**

Test Criteria	Test Result	
	1 <sup>st</sup>	2 <sup>nd</sup>
<b>(A) Progressive smouldering ignition (BS 5852:2006 Clause 4.1.1)</b>		
① Any test specimen that displays escalating smouldering combustion behaviour so that it is unsafe to continue the test and forcible extinction is required;	NO	NO
② Any test specimen that smoulders until it is essentially consumed or that smoulders to the extremities of the specimen, i.e. to either side or to/through the full thickness of the specimen, within the duration of the test;	NO	NO
③ Any test specimen that produces externally detectable amounts of smoke, heat or glowing 60 min after ignition of the crib;	NO	NO
④ Any test specimen that, on final examination, shows evidence of charring within the filling (other than discoloration) more than 100 mm in any direction, apart from upwards, from the nearest part of the original position of the source.	NO	NO
<b>(B) Flaming Ignition (BS 5852:2006 Clause 4.2.1)</b>		
① Any test specimen that displays escalating flaming combustion behaviour so that it is unsafe to continue the test and forcible extinction is required;	NO	NO
② Any test specimen that burns until it is essentially consumed within the test duration;	NO	NO
③ Any test specimen on which any flame front reaches the extremities of the specimen other than the top of the vertical part of the test specimen, or passes through the full thickness of the specimen within the duration of the test;	NO	NO
④ Any test specimen that continues to flame for more than 10 min after ignition of the crib	NO	NO
⑤ Any test specimen from which flaming debris causes an isolated floor fire that continues to flame for longer than the time given in ④.	NO	NO
<b>(C) Final Examination</b>		
Immediately after completion of the test programme on the assembly, dismantle it and examine it internally for progressive smouldering ignition, if this is found, extinguish the test assembly, and record an ignition and complete the test report.	No Ignition	



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**Test Details:**

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	2 min 16 s	3 min 48 s	6 min 29 s	73	72	22	#4
2 <sup>nd</sup>	5	2 min 23 s	4 min 12 s	6 min 44 s	74	72	20	#4

**Sub-Conclusion: PASS**

**Annex II: Filling Material Test as per BS 5852:Part 2:1982**

This test, specified in Annex A of BS 7176:2007+A1:2011, is based on BS 5852:Part 2:1982 using ignition source 5.

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

**Test Results:**

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 Whether progressive smouldering is observed when beyond 60 minutes after ignition of the crib	NO	NO
② Whether escalating combustion behaviour is observed so that it is unsafe to continue the test	NO	NO
③ Whether any composite smoulders until it is essentially consumed within the test duration.	NO	NO
④ Whether any composite that smoulders to the extremities the specimen viz. upper or lower margins, either side or to its full thickness within the duration of the test	NO	NO
⑤ Whether any composite on final examination shows evidence of charring more than 100mm in any direction	NO	NO
<b>(B) Flaming</b> (Clause 4.2 of BS 5852:Part 2:1982)		
① Whether any composite that continues to flame for more than 10 minutes after the ignition of the crib	NO	NO



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Test Criteria	Results	
	1 <sup>st</sup> test	2 <sup>nd</sup> test
② Whether escalating combustion behaviour is observed so that it is unsafe to continue the test	NO	NO
③ Whether any composite is essentially consumed within the test duration	NO	NO
④ Whether any composite display that on which 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 A ④, ⑤ and B ④ above and provided that the resultant mass loss is less than 60g the foam passes the ignitability test.	24 g	23 g

**Test Details:**

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	2 min 20 s	3 min 31 s	6 min 12 s	76	71	23	#5
2 <sup>nd</sup>	5	2 min 25 s	3 min 44 s	6 min 37 s	78	74	24	#5

**Sub-Conclusion: PASS**

**Remark:** N/A=Not Applicable, N/C=Not Conduct, N/P=Not Provided,

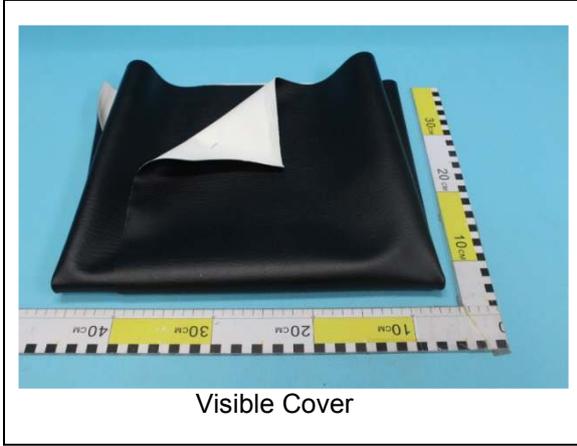
- #1—Cigarette fails to smoulder its complete length;
- #2—Cigarette passes to smoulder its complete length, but the sample was not ignition;
- #3—The sample was not ignited after removal of the burner;
- #4—Flaming but self-extinguishment;
- #5—Pass, flaming but self-extinguishment, the resultant mass loss is less than 60g;
- #6—Fail, flaming but self-extinguishment, the resultant mass loss is more than 60g;
- #7—Extinguished by operator, escalating flaming combustion;
- #8—The first test failed, so retest was not conducted.



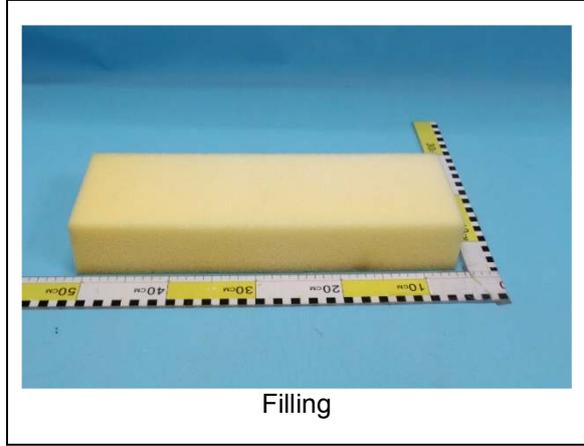
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Photo Appendix:



Visible Cover



Filling

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

