



Overall Rating: PASS

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	TEST	METHOD	SPECIMEN	RESULT
*	Specification for resistance to ignition of upholstered furniture for non-domestic seating by testing composites	BS 7176	RIO FR	PASS



Seal

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Environment

The requirements and standards apply to equipment intended for use in

X	<i>Residential (domestic) environment</i>
X	<i>Commercial and light-industrial environment</i>
X	<i>Industrial environment</i>
X	<i>Medical environment</i>

BS 7176 - Specification For Resistance To Ignition Of Upholstered Furniture For Non-Domestic Seating By Testing Composites**SCOPE**

This Standard specifies requirements for the resistance to ignition of upholstered furniture used for seating when tested in accordance with BS 5852, BS EN 1021-1 or BS EN 1021-2, as appropriate. The levels of ignition resistance have been set after careful consideration of the fire risk of the particular end-use environment involved.

Hazard Level	Low	Medium	High
BS 5852 for Upholstered Furniture			
Ignition Source	0 and 1 ✓	0 and 5	0 and 7

Hazard category	Requirements	Typical examples
Low hazard	Resistant to ignition source: smouldering cigarette as specified in BS EN 1021 1:2006. Resistant to ignition source: match flame equivalent as specified in BS EN 1021 2:2006.	Colleges Day centres Exhibitions Museums Offices Schools Universities

TEST METHOD

Source 0: Smoldering cigarette A cigarette is placed in the slit of the test rig and allowed to burn along its entire length. If no flaming or gradual smoldering is observed in both the cover and the inner material, the test is recorded as no ignition and the material passes the test.

Source 1: Simulated match A burner is lit, held across the slit of the test rig for 20 seconds, and then removed. If no flaming or gradual smoldering is observed in both the cover and the inner material, the test is recorded as no ignition and the material passes the test.

RESULT

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

BS EN 1021-1: Smoldering Ignition		Result
Smoke ceased within	5 s	PASS
Glowing ceased at:	-	
Unsafe escalating smoldering combustion?	No	
Any detectable amounts of smoke, Heat or glowing 60 Minutes after extinction of the source:	No	
Specimen essentially consumed or smolders to extremities including thickness within the duration of the test	No	
Flaming Criteria	-	
Occurrence of flames?	No	

BS EN 1021-2: Match Ignition		Result
Flaming Duration:	No Ignition	PASS
Smoldering Criteria	-	
Unsafe escalating smoldering combustion?	No	
Any detectable amounts of smoke, Heat or glowing 60 Minutes after extinction of the source:	No	
Specimen essentially consumed or smolders to extremities including thickness within the duration of the test	No	
Flaming Criteria	-	
Unsafe escalating flaming combustion.	No	
Essentially consumed within the duration of the test	No	
Flame front reached extremities and/or full thickness with the duration of the test	No	
Flaming continued to burn for more than 120s after removal of the flaming source.	No	

BS 5852 Ignition Source	Observations	Result
0 (cigarette)	No flaming or progressive smouldering was observed within one hour of placement of the cigarettes.	PASS
1 (butane flame)	Flaming ceased within the specified two minute period after removal of the butane flame and no progressive smouldering occurred.	PASS

SAMPLE IMAGE



*****END OF REPORT*****