eurofins | Modern Testing Services

Our Ref: LAS/RM 20 November 2023

Report 414042 **Page 1 of 3**

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DATE RECEIVED	:	14 NOVEMBER 2023
DATE TESTED	:	20 NOVEMBER 2023
QUALITY REFERENCE	:	MONTREAL
REPUTED FIBRE CONTENT	:	65% WV, 24% CO, 6% AF, 5% PL
COLOUR / DESIGN	:	N/A
FABRIC DESCRIPTION	:	WOVEN
END USE	:	FURNISHINGS

REQUEST: BS 5852:2006 “Methods of Test for the Assessment of the ignitability of upholstered seating by smouldering and flaming ignition sources” using ignition source 5 (wood crib)

RESULT: The sample met the flammability performance requirements of BS 5852:2006 when tested using ignition source 5 (wood crib)

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FIRE TESTS ACCORDING TO BS 5852:2006. Methods of Test for the Assessment of the ignitability of upholstered seating by smouldering and flaming ignition sources.

Pre-treatment

The sample was stated to have received a chemical FR treatment and was therefore subjected to the water soaking procedure described in Annex E of the above-mentioned standard.

Conditioning

Prior to testing, the sample was placed in indoor ambient conditions for 72 hours and then conditioned for 24 hours in an atmosphere having a temperature of 23 ±2°C and a relative humidity of 50 ± 5%.

Procedure

Specimens were mounted over fillings of combustion modified high resilience foam at a density of approximately 35-36 Kg/m^3, and tests were made using ignition source 5. Pass classifications were assigned if the performance requirements stated below were met.

Requirements

Ignition Source No.	Maximum duration allowed for progressive smouldering	Maximum duration allowed for flaming
5	60 min after ignition of wood crib	10 min after ignition of wood crib

The following test results relate only to the ignitability of the combination of upholstery composites (BS5852: 2006, Clause 11) under the particular conditions of test stated; they are not intended as a means of assessing the full potential fire hazard of the materials in use.
They also only relate to the materials tested. They do not guarantee to represent the performance of production materials.

	Test 1	**Test 2**
Time of flame extinction (min/secs)	3/38	4/56
Progressive smouldering	No	No
Damage reaches extremities of the test rig	No	No
Escalating combustion behaviour observed	No	No
Result designation	NI (Non-ignition)	NI (Non-ignition)

Comments
An 'NI' designation indicates that the sample met the flammability performance requirements of BS 5852:2006 when tested using ignition source 5 (wood crib).

Decision rules

The decision rule applicable to statements of conformity relating to the test(s) carried out is simple acceptance based on the measured test results not falling within a range either side of a specified limit that is equal to the uncertainty of measurement for the parameter measured (based on 95% confidence levels). In all other regards, the decision rule is based on simple acceptance predicated upon the conditions of testing falling within the criteria for test set out in the test method with a conformance probability of 95%. The risk of false accept or false reject is therefore not greater than 2.5%.

Uncertainty of measurement:	Timings	±0.4s
	Dimensions	±0.5mm