

Our Ref: LAS/RM

04 March 2024

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DATE RECEIVED	:	27 FEBRUARY 2024
DATE TESTED	:	04 MARCH 2024
QUALITY REFERENCE	:	VELL. ROXANA CS 01
REPUTED FIBRE CONTENT	:	100% TREVIRA
FABRIC DESCRIPTION	:	WOVEN
END USE	:	FURNISHING

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)



R. MASKILL
FLAMMABILITY TECHNOLOGIST



L. SMITH
QUALITY COORDINATOR

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Report 418416**Page 2 of 3****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 tested in the as received condition as requested by the client.

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 $23 \pm 2^{\circ}\text{C}$ and a relative humidity of $50 \pm 5\%$.

Procedure

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

Requirements

<u>Ignition Source No.</u>	<u>Maximum duration allowed for progressive smouldering</u>	<u>Maximum duration allowed for flaming</u>
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.

	<u>Test 1</u>	<u>Test 2</u>
Time of flame extinction (min/secs)	3/36	2/57
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).

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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	$\pm 0.4s$
Dimensions	$\pm 0.5mm$

