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SATRA reference: FUR0228351.2/1438

Your reference: PO695702-1

Date of report: 24 September 2014

For the attention of: Steve Wright

Samples received: 18 September 2014

TECHNICAL REPORT

Subject: Flammability testing of a composite described as "Sample B - Medal range leather with foam laminate backing over a CMHR seat foam" to BS EN 1021-1:2006, BS EN 1021-2:2006 and BS 5852:2006, Section 11, Ignition Source 5.

Conditions of Issue:

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Results given in this report refer only to the samples submitted for analysis and tested by SATRA. Comments are for guidance only.

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Please note uncertainty of measurement has not been applied to the results in this report. SATRA uncertainty of measurement values are available on request.

Report signed by: Tom Notley
Position: Furniture Technologist
Department: Furniture Department

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BS EN 1021-1:2006 Assessment of ignitability: Ignition source: smouldering cigarette

Sample Identification

The materials were described by the customer as:
 Sample B
 Cover: Medal range leather with foam laminate backing
 Filling: CMHR seat foam

Test result: NON-IGNITION

The above test result relates only to the ignitability of the combination of materials under the particular conditions of test; it is not intended as a means of assessing the full potential fire hazard of the materials in use.

Conditioning

The cover was not subjected to the water soaking procedure according to annex D of BS EN 1021-1 and dried by hanging vertically. It was then conditioned in an atmosphere of $23 \pm 2^{\circ}\text{C}$ and $50 \pm 5\% \text{rh}$ for more than 4 days. The other materials were conditioned in the same atmosphere for more than 4 days.

Procedure

The test was carried out as described in BS EN 1021-1 using a cigarette ignition source. Both cigarette applications were made on the same test assembly.

Details of observations

	Cigarette	
	1	2
Smouldering criteria	*	*
Unsafe escalating combustion. (3.1a)	No	No
Test assembly consumed. (3.1b)	No	No
Smoulders to extremities. (3.1c)	No	No
Smoulders through thickness. (3.1c)	No	No
Smoulders more than 1 hour. (3.1d)	No	No
More than 100mm from source. (3.1e)	No	No
Flaming criteria	*	*
Unsafe escalating combustion. (3.2a)	No	No
Test assembly consumed. (3.2b)	No	No
Flames to extremities. (3.2c)	No	No
Flames through thickness. (3.2c)	No	No
* Enter 'YES' if criteria exceeded or 'NO' if criteria not exceeded.		

BS EN 1021-2:2006 Assessment of ignitability: Ignition source: match flame equivalent

Sample Identification

The materials were described by the customer as:

Sample B

Cover: Medal range leather with foam laminate backing

Filling: CMHR seat foam

Test result: NON-IGNITION

The above test result relates only to the ignitability of the combination of materials under the particular conditions of test; it is not intended as a means of assessing the full potential fire hazard of the materials in use.

Conditioning

The cover was not subjected to the water soaking procedure according to annex D of BS EN 1021-2 and dried by hanging vertically. It was then conditioned in an atmosphere of $23 \pm 2^\circ\text{C}$ and $50 \pm 5\%\text{rh}$ for more than 4 days. The other materials were conditioned in the same atmosphere for more than 4 days.

Procedure

The test was carried out as described in BS EN 1021-2 using a gas flame ignition source 1. All flame applications were made on the same test assembly.

Details of observations

	Match flame equivalent		
	1	2	3
Smouldering criteria	*	*	*
Unsafe escalating combustion. (3.1a)	No	No	No
Test assembly consumed. (3.1b)	No	No	No
Smoulders to extremities. (3.1c)	No	No	No
Smoulders through thickness. (3.1c)	No	No	No
Smoulders more than 1 hour. (3.1d)	No	No	No
More than 100mm from source. (3.1e)	No	No	No
Flaming criteria	*	*	*
Unsafe escalating combustion. (3.2a)	No	No	No
Test assembly consumed. (3.2b)	No	No	No
Flames to extremities. (3.2c)	No	No	No
Flames through thickness. (3.2c)	No	No	No
Flames longer than 120s. (3.2d)	No	No	No
* Enter 'YES' if criteria exceeded or 'NO' if criteria not exceeded.			

BS 5852:2006, 'Methods Of Test For Assessment Of The Ignitability Of Upholstered Seating By Smouldering And Flaming Sources', Section 11, Methods of test for the ignitability of upholstery composites

IGNITION SOURCE 5

Sample Identification

The materials were described by the customer as:
Sample B
Cover: Medal range leather with foam laminate backing
Filling: CMHR seat foam

Test result: FLAMING IGNITION

The above test result relates only to the ignitability of upholstery composites (BS 5852:2006 section 11) under the particular conditions of test; it is not intended as a means of assessing the full potential fire hazard of the materials or products in use.

Conditioning

The cover was not subjected to the water soaking procedure according to BS 5852:2006 Annex E and dried by hanging vertically. It was then conditioned for more than 4 days in an atmosphere of $20 \pm 5^{\circ}\text{C}$ and $50 \pm 20\%$.

The other materials were conditioned for more than 4 days at $20 \pm 5^{\circ}\text{C}$ and $50 \pm 20\%\text{rh}$.

Procedure

The test was carried out as described in BS 5852:2006 section 11 using ignition source 5 and the large test rig.

Details of observations

Note: All times given below are from the ignition of the crib.

First application:

Flaming extended through the full thickness of the specimen after 5 minutes 2 seconds.

Flaming continued beyond the allowed limit of 10 minutes.

The specimen was forcibly extinguished after 10 minutes 16 seconds because flaming had continued beyond the allowed time and damage limits and it was unsafe to continue.

Second application:

Not applicable

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Issue Date: 1st October 2009