

Customer details: KAB Seating  
Stone Circle Road  
Round Spinney  
Northampton  
Northamptonshire  
NN3 8RS

SATRA reference: FUR0228351.1/1438

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 A - Medal range leather 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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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



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

### Sample Identification

The materials were described by the customer as:

Sample A

Cover: Medal range leather

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
<b>Smouldering criteria</b>	*	*
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
<b>Flaming criteria</b>	*	*
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 A

Cover: Medal range leather

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
<b>Smouldering criteria</b>	*	*	*
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
<b>Flaming criteria</b>	*	*	*
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 A

Cover: Medal range leather

Filling: CMHR seat foam

### Test result: NON-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  $50 \pm 20\%$ rh.

### Procedure

The test was carried out as described in BS 5852:2006 section 11 using ignition source 5 and the large test rig. A separate test assembly was used for each application of the source.

### Details of observations

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

First application:

Flames self extinguished after 6 minutes 28 seconds (limit of 10 minutes allowed) and smouldering ceased after 9 minutes 16 seconds (limit of 60 minutes allowed). On final examination the smouldering ignition damage did not extend beyond 100 mm.

Second application:

Flames self extinguished after 6 minutes 46 seconds (limit of 10 minutes allowed) and smouldering ceased after 9 minutes 31 seconds (limit of 60 minutes allowed). On final examination the smouldering ignition damage did not extend beyond 100 mm.

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Issue Date: 1st October 2009

