

## FLAMMABILITY TEST REPORT

**Report No.:** LEHTX00638714    **Date Received:** 11/07/12    **Date Tested:** 17/07/12    **Date Issued:** 17/07/12

**Company Name & Address:** BUTE FABRICS LTD  
4 BARONE ROAD  
ROTHESAY  
ISLE OF BUTE  
PA20 ODP

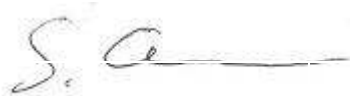
**Contact Name:** CATHERINE MURRAY

**Sample Details**

Order no.: 135247/2953  
Description: Woven Upholstery  
Ref/Style No: CF802/CF803  
Colour: 0108  
Quality: Tay / Teviot  
Supplier: Bute Fabrics Ltd  
Batch no.: 23791 101  
End use: Upholstery  
Fibre Content: 100% pure new wool  
Sample description: Multicoloured woven fabric

Test Method	Pre Treatment	Requirement	Result
BS EN 1021-1:2006 (Smouldering Cigarette)	None	As BS EN 1021-1:2006 (Smouldering Cigarette)	<b>NI (PASS)</b>
BS EN 1021-2:2006 (Match Flame Equivalent)	None	As BS EN 1021-2:2006 (Match Flame Equivalent)	<b>NI (PASS)</b>
BS 5852:2006 Clause 11 (upholstery composite) Ignition source 5	None	As BS 5852:2006 Clause 11 (upholstery composite) Ignition source 5	<b>NI 5 (PASS)</b>

The upholstery composite tested **meets** the performance requirements for resistance to ignition as detailed in the Medium Hazard (Cigarette, Match & Crib 5) category of Table 1 of BS 7176: 2007.



.....  
**STEVEN OWEN**  
(Chemical Technologist)

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**CAROLE SPOWART**  
(Flammability Technician)

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**ANDREW WHITE**  
(Quality Manager)

.....  
**SIMON CHEE**  
(Analytical Lab Manager)

## FLAMMABILITY TEST REPORT

### Test Specification

Test method: BS EN 1021-1:2006 (Smouldering Cigarette)  
BS EN 1021-2:2006 (Match Flame Equivalent)

### Filling specification

Filling type: Polyurethane foam  
Supplier / grade: Carpenters / RX36110 (As requested by the customer)  
Size: 450 x 450 x 75mm (back) & 450 x 300 x 75mm (seat)  
Density / Hardness: 35-37kg/m<sup>3</sup> / 105-115N

### Pre-treatment / Durability procedure

None

### Conditioning

Prior to testing: At least 24 hours in an atmosphere having a temperature of 23±2°C and a relative humidity of 50±5%  
At time of testing: Temperature between 10°C. and 30°C. and a relative humidity between 15% and 80%.

### Test Results

BS EN 1021-1:2006 (Smouldering Cigarette). Test 1:	The cigarette burnt out within 30 minutes, there was no flaming or progressive smouldering. <b>(Pass)</b>
BS EN 1021-1:2006 (Smouldering Cigarette). Test 2:	The cigarette burnt out within 32 minutes, there was no flaming or progressive smouldering. <b>(Pass)</b>
BS EN 1021-2:2006 (Match Flame Equivalent). Test 1:	Flaming ceased 2 seconds after the removal of the burner, there was no progressive smouldering. <b>(Pass)</b>
BS EN 1021-2:2006 (Match Flame Equivalent). Test 2:	Flaming ceased with the removal of the burner, there was no progressive smouldering. <b>(Pass)</b>
BS EN 1021-2:2006 (Match Flame Equivalent). Test 3:	Flaming ceased 3 seconds after the removal of the burner, there was no progressive smouldering. <b>(Pass)</b>
<i>"The above test results relate only to the ignitability of the combinations 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."</i>	

## FLAMMABILITY TEST REPORT

### Test Specification

Test method: BS 5852:2006 Clause 11 (upholstery composite) Ignition source 5

### Foam specification

Supplier / grade: Carpenters / RX36110 (As requested by the customer)  
Size: 450 x 450 x 75mm (back) & 450 x 300 x 75mm (seat)  
Density / Hardness: 35-37kg/m<sup>3</sup> / 105-115N

### Pre-treatment / Durability procedure

None

### Conditioning

Prior to testing: At least 72 hours in ambient indoor conditions, then at least 24 hours in an atmosphere having a temperature of 20±5°C and a relative humidity of 50±20%  
At time of testing: Temperature between 16°C. and 30°C. and a relative humidity between 20% and 70%.

### Test Results (Cont.)

*“The following test results relate only to the ignitability of the combination of upholstery composites (BS 5852: 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 or products in use”;*

Pass / Fail Criteria	Initial test	Repeat test
<b>Progressive smouldering failure</b>		
Externally detectable amounts of smoke, heat or glowing 60 minutes after crib ignition	No	No
Escalating smouldering behaviour rendered the test unsafe to continue and required forcible extinction	No	No
Smouldering essentially consumed the test specimen within the duration of the test / Smouldering reached the extremities of the test specimen (Other than the top of the vertical part of the test specimen) within the duration of the test	No	No
<b>Flaming failure</b>		
The test specimen continued to flame for more than 10 minutes after the ignition of the crib	No	No
Escalating combustion behaviour rendered the test unsafe to continue and required forcible extinction	No	No
Flaming essentially consumed the test specimen within the duration of the test	No	No
Flaming reached the extremities of the test specimen (Other than the top of the vertical part of the test specimen) within the duration of the test	No	No
Debris from the test specimen caused an isolated floor fire that continued to flame for more than 10 minutes after the ignition of the crib	No	No
<b>Final examination</b>		
Progressive smouldering was observed when the sample was dismantled	No	No
Evidence of charring within the filling (other than discolouration) more than 100mm in any direction, apart from upwards, from the nearest part of the original position of the ignition source	No	No
<b>Comment</b>		
Time to extinction of flames after crib ignition	5 minutes 08 seconds	4 minutes 25 seconds
Time to extinction of crib glowing after crib ignition	9 minutes 24 seconds	7 minutes 53 seconds
Time to extinction of smoke after crib ignition	12 minutes 03 seconds	9 minutes 48 seconds
Maximum damage length / width (Back)	400      83	400      84
Maximum damage length / width (Base)	65      93	63      94
<b>Test Result</b>	<b>NI/5 (PASS)</b>	<b>NI/5 (PASS)</b>
<b>Ignitability performance index: “Clause 11 NI/5”</b>		