

## FLAMMABILITY TEST REPORT

**Report No.:** LEI17110659B      **Date Received:** 03/11/17      **Date Tested:** 10/11/17      **Date Issued:** 13/11/17

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

**Contact Name:** MARGARET-ANNE SPEIRS

### Sample Details

Order No.: 135969 / 3144  
Description: Woven Upholstery Fabric  
Ref/Style No.: CF1053  
Colour: Turquoise  
Quality: Not stated  
Supplier: Bute  
Batch No.: Not stated  
End Use: Upholstery  
Quoted Fibre Composition: 87% Pure New Wool, 13% Nylon  
Retailer: Not stated  
Specification No.: Not stated  
Sample Description: Turquoise and grey coloured woven fabric

Test Method	Pre Treatment	Requirement	Result
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>

**Note:** The customer requested that RX36110 foam with an approximate density 35 kg/m<sup>3</sup> be used as the filling material

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

  
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**ANDREW HALLETT**  
(Flammability Team Leader)

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**CAROLE SPOWART**  
(Flammability Technician)

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**SIMON CHEE**  
(Operations Manager)

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### Test Specification

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

### Foam specification

Supplier / Grade: Carpenter / RX36110 (As requested by the customer)  
Size: 450 x 450 x 75mm (back) & 450 x 300 x 75mm (seat)  
Density / Hardness: 34-36kg/m<sup>3</sup> /105-115N

### Conditioning

Prior to Testing: At least 72 hours in ambient indoor conditions, then 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 of 10 °C to 30 °C and a relative humidity of 15 % to 80 %

### Test Results

*"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
Time to extinction of flames after crib ignition	4 Minutes and 32 Seconds	4 Minutes and 13 Seconds
Time to extinction of glowing after crib ignition	Due to the position of the crib within the test specimen it was not possible to see when glowing ceased	Due to the position of the crib within the test specimen it was not possible to see when glowing ceased
Time to extinction of smoke after crib ignition	Due to the amount of smoke in the test enclosure it was not possible to see when smoking ceased.	Due to the amount of smoke in the test enclosure it was not possible to see when smoking ceased.
Maximum extent of damage to back (mm) Length / Width	400      85	400      90
Maximum extent of damage to base (mm) Length / Width	65      85	75      100
<b>Test Result</b>	<b>NI/5 (PASS)</b>	<b>NI/5 (PASS)</b>
<b>Ignitability performance index: "Clause 11 - NI/5"</b>		

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Report No.: LEI17110659B Page 2 of 2

