

FLAMMABILITY TEST REPORT

Report No.: LEI17100778A **Date Received:** 04/10/17 **Date Tested:** 11/10/17 **Date Issued:** 12/10/17

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

Contact Name: S MCGROARTY

Sample Details

Order No.: 135962/3140
Description: Woven Fabric
Ref./Style No.: CF 1012/2012
Colour: Blue/Orange
Quality: Not stated
Supplier: Bute
Batch No.: 32048/01
End Use: Upholstery
Quoted Fibre Composition: 61% Merino Wool, 33% Pure New Wool, 6% Nylon
Retailer: Not stated
Specification No.: Not stated
Sample Description: Blue and orange coloured woven fabric

Test Method	Pre Treatment	Requirement	Result
BS EN 1021-1:2006 (Smouldering Cigarette)	Watersoak as Annex D of BS EN 1021-1:2014	As BS EN 1021-1:2006 (Smouldering Cigarette)	NI (PASS)
BS EN 1021-2:2006 (Match Flame Equivalent)	Watersoak as Annex D of BS EN 1021-1:2014	As BS EN 1021-2:2006 (Match Flame Equivalent)	NI (PASS)
BS 5852:2006 Clause 11 (upholstery composite) Ignition source 5	Watersoak as Annex E of BS 5852:2006	As BS 5852:2006 Clause 11 (upholstery composite) Ignition source 5	NI (PASS)

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.



ANDREW HALLETT
(Flammability Team Leader)

CAROLE SPOWART
(Flammability Technician)

SIMON CHEE
(Operations 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: Carpenter / RX36110 Combustion Modified
Size: 450 x 450 x 75mm (back) & 450 x 300 x 75mm (seat)
Density / Hardness: 34-36 kg/m³ / 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 27 minutes, there was no flaming or progressive smouldering. (Pass)
BS EN 1021-1:2006 (Smouldering Cigarette). Test 2:	The cigarette burnt out within 28 minutes, there was no flaming or progressive smouldering. (Pass)
BS EN 1021-2:2006 (Match Flame Equivalent). Test 1:	Flaming ceased with the removal of the burner, there was no progressive smouldering. (Pass)
BS EN 1021-2:2006 (Match Flame Equivalent). Test 2:	Flaming ceased with the removal of the burner, there was no progressive smouldering. (Pass)
BS EN 1021-2:2006 (Match Flame Equivalent). Test 3:	Flaming ceased with the removal of the burner, there was no progressive smouldering. (Pass)
<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: Carpenter / RX36110 (As requested by the customer)
Size: 450 x 450 x 75mm (back) & 450 x 300 x 75mm (seat)
Density / Hardness: 34-36kg/m³ /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";

Test number / position	1	2
Criterion of Ignition		
Smouldering Criteria		
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
Flaming Failure		
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
Final Examination		
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	3 Minutes 50 Seconds	4 Minutes 20 Seconds
Time to extinction of glowing after crib ignition	5 Minutes 32 Seconds	6 Minutes 05 Seconds
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 88
Maximum extent of damage to base (mm) Length / Width	67 94	68 100
Test Result	NI/5 (PASS)	NI/5 (PASS)
Ignitability performance index: "Clause 11 - NI/5"		

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