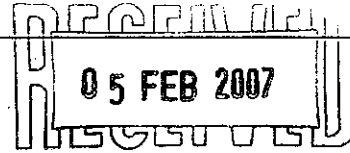


FLAMMABILITY TEST REPORT

Report No.: 387933/07 Date Received : 19/01/07 Date Tested: 25/01/07 Issue Date: 25/01/07

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

Contact Name: S McGROARTY



Sample Details

Order no.: /2697
 Customers description: CF 740 – Tweed
 Style no.: CF 740 – Tweed
 Quality: Not Stated
 Batch no.: 19681/01
 Colour(s): 0215
 Supplier: Not Stated
 Retailer: Not Stated
 Composition: 100% Pure New Wool
 End use: Upholstery
 Sample description: Red/Yellow coloured woven fabric with a flame-retardant finish

Test Method	Pre Treatment	Requirement	Result
BS 5852: 1990 section 4, Ignition source 5 (Crib 5)	Watersoaked as detailed in clause 3 of BS 5651: 1989 then line dried.	BS 7176: 1995 Direct test for Medium Hazard (Crib 5 only)	PASS
Note: The customer requested that the test carried out over CMHR foam with an approximate density 35 kg/m ³			

.....
KRISTIAN LEE
 (Flammability Technician)

.....
STEVEN OWEN
 (Flammability Technician)

.....
SIMON CHEE
 (Area Leader)

.....
ANDREW WHITE
 (Quality Manager)



FLAMMABILITY TEST REPORT**Test Specification**

Test method: BS 5852: 1990 section 4, Ignition source 5 (Crib 5) as required by BS 7176: 1995
Direct test for Medium Hazard.

Criterion of ignition: Pine wood crib size 5

Side tested: Face

Filling Specification

Filling type: Polyurethane foam

Supplier / grade: Vitafoam / CMHR 35 (As requested by the customer)

Size: 450 x 450 x 75mm (back) & 450 x 300 x 75mm (seat)

Density / Hardness: 33-36kg/m³ / 90-120

Interliner: None

Pre-treatment / Durability procedure

Watersoaked as detailed in clause 3 of BS 5651: 1989 then line dried.

Conditioning

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

At time of testing: Temperature of 23±7°C and a relative humidity of 45±25%

Report No.: 387933/07: Page 2 of 3

FLAMMABILITY TEST REPORT

Test Results

"The following test results relate only to the ignitability of the combinations of upholstery composites (Section 4 of BS 5852: 1990) 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
Progressive smouldering failure		
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
Comment		
Time to extinction of flames after crib ignition	4 minutes 47 seconds	5 minutes 33 seconds
Time to extinction of crib glowing after crib ignition	8 minutes 16 seconds	9 minutes 13 seconds
Time to extinction of smoke after crib ignition	8 minutes 32 seconds	9 minutes 35 seconds
Maximum damage length / width (Base)	325mm / 86mm	335mm / 80mm
Maximum damage length / width (Back)	60mm / 91mm	65mm / 115mm
Test Result	Pass	Pass
Ignitability performance index: NI/5		

Conclusions

The composite tested meets the requirements of BS 7176: 1995 Direct test for Medium Hazard (Crib 5 only) and the requirements of BS 5852: 1990 section 4, Ignition source 5 (Crib 5). **PASS.**