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FLAMMABILITY TEST REPORT

Report No.: LEHTX00481890

Date Received: 03/04/09

Date Tested: 09/04/09

Date Issued: 09/04/09

Company Name & Address:

FLAMENTEK LIMITED

FIRE PREVENTION CONSULTANTS

FOX FARMHOUSE SHADINGFIELD BECCLES SUFFOLK

NR34 8DD

Woven

Contact Name:

DONNA BARBER

Sample Details

Sample quality / Colour:

Job reference number:

End Use:

Supplier: Quoted fibre composition:

Fabric type:

Customers sample description:

Sample description:

Remix col. Red / Orange KV0287.09 - 21114

Non-domestic Upholstery Kvadrat Holding

90% new wool / 10% nylon

Woven upholstery material treated with a DURAFLAM@Flame Retardant

formulation by Fabric Flare Limited

Red coloured fabric with a flame retardant backcoat

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

y 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.

Note: The customer requested that CMHR foam with an approximate density 35 kg/m be used as the filling material

STEVEN OWEN (Chemical Technologist)

CAROLE SPOWART (Flammability Technician)

HILL HOSPING IN TO WAR

ANDREW WHITE (Quality Manager)

SIMON CHEE (Analytical Lab Manager)

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Test Specification

Test method:

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

Foam Specification

Supplier / grade:

Size:

Vitafoam / CMHR 35 (As requested by the customer) 450 x 300 x 75mm (back) & 450 x 150 x 75mm (seat)

Density / Hardness:

33-36kg/m³ / 90-120

Pre-treatment / Durability procedure
Watersoaked as Annex D of BS EN 1021-1:2006 / BS EN 1021-2:2006 then line dried.

Conditioning

Prior to testing:

At least 16 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	The cigarette failed to burn its complete length, there was no flaming or
(Smouldering Cigarette). Test 1:	progressive smouldering. (Pass)
BS EN 1021-1:2006 (Smouldering Cigarette). Test 2:	The cigarette failed to burn its complete length, there was no flaming or progressive smouldering. (Pass)
BS EN 1021-2:2006 (Match Flame Equivalent). Test 1:	Flaming ceased 5 seconds after removal of the burner, there was no progressive smouldering. (Pass)
BS EN 1021-2:2006 (Match Flame Equivalent). Test 2:	Flaming ceased 4 seconds after removal of the burner, there was no progressive smouldering. (Pass)
BS EN 1021-2:2006 (Match Flame Equivalent).Test 3:	Flaming ceased 5 seconds after removal of the burner, there was no progressive smouldering. (Pass)

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FLAMMABILITY TEST REPORT

Test Specification

Test method:

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

Foam specification

Supplier / grade: Size: Vitafoam / CMHR 35 (As requested by the customer) 450 x 450 x 75mm (back) & 450 x 300 x 75mm (seat)

Density / Hardness:

33-36kg/m³ / 90-120

Pre-treatment / Durability procedure

Watersoaked as Annex E of BS 5852:2006 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 between 16°C. and 30°C. and a relative humidity between 20% and 70%.

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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

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		7,111
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 33 seconds	5 minutes 31 seconds
Time to extinction of crib glowing after crib ignition	5 minutes 26 seconds	6 minutes 59 seconds
Time to extinction of smoke after crib ignition	5 minutes 49 seconds	7 minutes 28 seconds
Maximum damage length / width (Base)	400mm / 69mm	400mm / 73mm
Maximum damage length / width (Back)	64mm / 41mm	75mm / 36mm
Test Result	NI	NI

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