

FLAMMABILITY TEST REPORT

Report No.: LEHTX00532613 **Date Received:** 20/05/10 **Date Tested:** 26/05/10 **Date Issued:** 26/05/10

Company Name & Address: FLAMENTEK LIMITED
FIRE PREVENTION CONSULTANTS
FOX FARMHOUSE
SHADINGFIELD
BECCLES
SUFFOLK
NR34 8DD

Contact Name: DONNA BARBER

Sample Details

Sample quality / Colour: Tonica col. black
Job reference number: KV0029.10
End Use: Non-domestic Upholstery
Supplier: Kvadrat A/S
Quoted fibre composition: 100% New Wool
Customers sample description: Flat weave treated with Duraflam® flame retardant formulation by Fabric Flare Limited
Sample description: Black coloured fabric with a flame retardant coating

Test Method	Pre Treatment	Requirement	Result
BS 5852:2006 Clause 11 (upholstery composite) Ignition source 5	Watersoaked as Annex E of BS 5852:2006	As BS 5852:2006 Clause 11 (upholstery composite) Ignition source 5	NI/5 (PASS)

Note: The customer requested that the test be carried out over CMHR foam with an approximate density 35 kg/m³



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(Chemical Technologist)

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(Flammability Technician)

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Filling Specification

Filling type: Polyurethane foam
Supplier / grade: Carpenter / RX36100 (As requested by the customer)
Size: Source 5: 450 x 450 x 75mm (back) & 450 x 300 x 75mm (seat)
Density / Hardness: 35-37kg/m³ / 95-115N

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	
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	
Time to extinction of flames after crib ignition	3 Minutes 39 Seconds		3 Minutes 52 Seconds	
Time to extinction of glowing after crib ignition	7 Minutes 58 Seconds		8 Minutes 21 Seconds	
Time to extinction of smoke after crib ignition	8 Minutes 12 Seconds		8 Minutes 29 Seconds	
Maximum extent of damage to back (mm) Length / Width	400	91	400	103
Maximum extent of damage to base (mm) Length / Width	82	94	86	92
Test Result	NI/5 (PASS)		NI/5 (PASS)	
Ignitability performance index: "Clause 11 NI/5"				