



BUREAU
VERITAS

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TEST REPORT

Report Reference: TR5216/186448

Submitted By: Gabriel A/S, Hjulmagervej 55, DK-9000, Aalborg, Denmark
F.A.O: Bente Ellingsoe

Order Date: 28 November 2016

Order No: None Given

Date of Receipt: 03 January 2017

Items Tested: Step
Colour: 60004 Light Grey
End Use: Upholstery
Claimed: 100% Trevira CS

BS 7176:2007 + A1:2011

Test Request

The sample supplied is a woven fabric and has been tested to BS 7176:2007 + A1:2011 using EN 1021-1-2:2006 Smouldering Cigarette and Match and BS 5852:2006 Ignition Source 5 (Medium hazard)

Fibre Identification

Reputed Fibre Composition Woven

Pre Treatment

The sample for Cigarette and Match was cleansed using a water-soak procedure at $40\pm 1^\circ\text{C}$ as described in BS 5852:2006, Annex E and then line dried.

The sample for Ignition source 5 was cleansed using a water-soak procedure at $40\pm 1^\circ\text{C}$ as described in BS 5852:2006, Annex E and then line dried.

Conditioning

The sample for Cigarette and Match was conditioned at ambient conditions, followed by conditioning in a standard atmosphere having a temperature of $23\pm 2^\circ\text{C}$ and a relative humidity of $50\pm 5\%$ r.h for a minimum of 24 hours.

The sample for Ignition Source 5 was conditioned at ambient conditions for 72 hours and then in a standard atmosphere having a temperature of $23\pm 2^\circ\text{C}$ and a relative humidity of $50\pm 5\%$ r.h for a minimum of 24 hours.

Comments on the Results

The fabric sample supplied meets the requirements of BS EN 1021-1-2:2006 Smouldering Cigarette and Match test, BS 5852:2006 Ignition Source 5 and can be classified as 'Medium Hazard'.

Results

'The following test results relate only to the ignitability of the combination of materials under the particular conditions of the test, they are not intended as a means of assessing the full potential fire hazard of the materials in use.'

Note: Tests contained within this test report were subcontracted

Authorised By: Z. Wells

UK Deputy Operations Manager
Z. Wells

Issue Date: 27th January 2017

TEST REPORT

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Items Tested:

Step
Colour: 60004 Light Grey
End Use: Upholstery
Claimed: 100% Trevira CS

Cigarette Test

Pass Criteria:

When two samples are tested no progressive smouldering or flaming is to be observed within 1 hour of placement of the cigarette. If the cigarette fails to smoulder to its complete length, the test is repeated in a new position not less than 50mm from the previous damage. No progressive smouldering is to be present in the final examination.

Specimen Number	Cigarette Ignition	
	1	2
Smouldering Time of the Cigarette	20 min 26 secs	21 min 04 secs
Smouldering	NPS	NPS
Flaming	N	N
Smoking	N	N
Afterglow	N	N
Cover Split	Y	Y
Final Examination	P	P

Match Test

Pass Criteria:

Disregard flaming or progressive smouldering which ceases within 120seconds of the removal of the burner tube.

Specimen Number	Match Test					
	1	Time	2	Time	3	Time
Smouldering	N	-	N	-	N	-
Flaming	Y	3 secs	Y	2 secs	Y	3 secs
Smoking	Y	6 secs	Y	4 secs	Y	5 secs
Afterglow	N	-	N	-	N	-
Cover split	Y	-	Y	-	Y	-
Final Examination	P	-	P	-	P	-

Ignition Source 5

Pass Criteria:

Disregard flaming which ceases within 10 minutes and smoke, heat or glowing which ceases within 60minutes of igniting the crib.

No smouldering is to be present in the final examination

Specimen Number	1	Time	2	Time
Smoking	Y	4 min 46 secs	Y	4 min 59 secs
Smouldering	N	-	N	-
Flaming	Y	3 min 55 secs	Y	3 min 40 secs
Afterglow	N	-	N	-
Damage exceeds limits of clauses 4.1(e) 4.1(f) or 4.2(f)	N	-	N	-
Final Examination	P	-	P	-

Please note that the fabric sample was tested over combustion-modified foam with a density of 35kg per M³.

Key:

Y=Yes N=No P=Pass F=Fail N/A= Not Applicable.



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