

FLAMMABILITY TEST REPORT

Report No.: LEI22111758A **Date Received:** 22/11/22 **Date Tested:** 28/11/22 **Date Issued:** 28/11/22

Company Name & Address: VEROTEX INDUSTRIES BV
EDISONWEG 3
5466 AR VEGHEL
NETHERLANDS

Contact Name:

Sample Details

Order No.: Not stated
Description: Not stated
Ref. / Style No.: Not stated
Colour: Not stated
Quality: XFR - Saiph
Supplier: Not stated
Batch No.: Not stated
End Use: Not stated
Number of Samples: Not stated
Quoted Fibre Content: Not stated
Buying Division: Not stated
Specification No.: Not stated
Sample Description: Grey coloured woven fabric

Test Method	Pre Treatment	Requirement	Result
BS EN 1021-1:2006 (Smouldering Cigarette)	Watersoak as Annex E of BS 5852: 2006	As BS EN 1021-1:2006 (Smouldering Cigarette)	PASS
BS EN 1021-2:2006 (Match Flame Equivalent)	Watersoak as Annex E of BS 5852: 2006	As BS EN 1021-2:2006 (Match Flame Equivalent)	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	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+A1:2011			

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STEVEN OWEN
(Technical & Operational
Excellence Manager)


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ANDREW HALLETT
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CAROLE SPOWART
(Flammability
Administrator)

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GREGORY JAMES
(Flammability Technician)

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: 36kg/m³ ± 5% / 105N ± 15%

Uncertainty of Measurement

The uncertainty of measurement for BS EN 1021-1:2006 has been estimated to be 0.03%
The uncertainty of measurement for BS EN 1021-2:2006 has been estimated to be 5.43%.

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 22 minutes, there was no flaming or progressive smouldering. (Pass)
BS EN 1021-1:2006 (Smouldering Cigarette). Test 2:	The cigarette burnt out within 23 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

Uncertainty of Measurement

The uncertainty of measurement for BS 5852:2006 has been estimated to be 5.99%

Foam 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: 36kg/m3 ± 5% /105N ± 15%

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 0 Seconds	3 Minutes 49 Seconds
Time to extinction of glowing after crib ignition	Due to the position of the crib within the test specimen it was not possible to see when glowing ceased	Due to the position of the crib within the test specimen it was not possible to see when glowing ceased
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 / 140	400 / 190
Maximum extent of damage to base (mm) Length / Width	85 / 135	130 / 190
Test Result	NI/5 (PASS)	NI/5 (PASS)
Ignitability performance Index: "Clause 11 - NI/5"		

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The reported expanded uncertainty is based on a standard uncertainty multiplied by a coverage factor of $k = 2$, providing a level of confidence of approximately 95 %. Unless otherwise specified all compliance and pass/fail statements are binary simple acceptance based on the tolerance interval and, with the exception of graded methods, a test uncertainty ratio greater (TUR) than 4:1. For graded methods the TUR will drop to as low as 0.5:1 when the tolerance limits are within a grade division of the upper scale limit. The Uncertainty budgets are stated for each Test method, these are for reference, and should be considered when results are on or close to Specification Limits / Requirements and in such cases it should be noted that the risk of false acceptance or rejection may be as high as 50%, for further information please refer to ILAC G8.

