Confidential Report

Our Ref: 23/58877/08/21

Wira House, West Park Ring Road, Leeds, LS16 6QL, UK.
Telephone: +44 (0) 113 259 1999
Email: info@bttg.co.uk
: www.bttg.co.uk

Date: 0 September 2021

Our Ref: 23/58877B/08/21
Your Ref: ---

Client: **SVENSSON**

AB Ludvig Svensson
Bangatan 8
SE - 511 82 Kinna
Sweden

Job Title: Fire Test on One Fabric Sample

Clients Order Ref: --

Date of Receipt: 27 August 2021

Date Test Started: 06 September 2021

Description of Sample: One sample of fabric, which was referenced by the client as;

Article: Macro. Composition: Stated to be 85% wool, 15% polyamide. Weight: 335 g/m2

Work Requested: We were asked to test the received sample to the following standard:

BS EN 1021:Parts 1 & 2:2014 – Ignitability of Upholstered Furniture

* subcontracted test, UKAS accredited
** subcontracted test, EN ISO/IEC 17025 accredited
*** not UKAS accredited

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Note: This report relates only to the samples submitted and as described in the report.

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FIRE TEST ACCORDING TO BS EN 1021-1:2014
Assessment of the ignitability of upholstered furniture. Part I. Ignition Source 0: Smouldering cigarette

Pre-Treatment

The material was water soaked and dried in accordance with BS EN 1021:Annex D (2020).

Conditioning

The sample was conditioned for at least 16 hours at a temperature of 23±2°C and relative humidity of 50±5%.

The sample was tested in a room of volume 25m^3 and 19ºC.

Procedure

The test was carried out in accordance with BS EN 1021-1:2014. The sponsor sampled the material and the specimens were cut from the sample received to the dimensions set out in the standard.

The sample was tested over non-fire retardant polyurethane foam with a density of approximately 20-22kg/m^3.

Tests were made using ignition source 0.

Requirements

The specimens shall not:-

Smouldering Criteria

a) display escalating combustion requiring active extinction.
b) smoulder or burn until it is essentially consumed within the test duration.
c) smoulder or burn to the extremities of the specimen, or through the full thickness, within the duration of the test.
d) smoulder for more than one hour.
e) on final examination, show evidence of progressive smouldering.

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Requirements (continued)

Flaming Criteria

a) show evidence of flaming initiated by a smouldering source.

Results

	Specimen No.	
Smouldering criteria	**1**	**2**
Placement of Cigarette	**Flat**	**Flat**
Unsafe escalating combustion	No	No
Testing assembly consumed	No	No
Smoulders to extremities/full thickness	No	No
Smoulders more than 1 hour	No	No
In final examination, presence of progressive smouldering	No	No

Flaming criteria	**1**	**2**
Occurrence of flames	No	No
Specimen Result (Ignition or Non-ignition)	**Non-Ignition (NI)**	**Non-Ignition (NI)**

Any “Yes” in smouldering or flaming criteria means Ignition

Cigarette Test Result **PASS**

Note

The test results relate only to the ignitability of the combination 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.

Comments

An NI designation indicates that the sample meets the performance requirements of BS EN 1021-1.

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FIRE TESTS ACCORDING TO BS EN 1021-2:2014
Assessment of the ignitability of upholstered furniture. Part 2. Ignition Source 1: Match flame equivalent.

Pre-Treatment

The material was water soaked and dried in accordance with BS EN 1021:Annex D (2020).

Conditioning

The sample was conditioned for at least 16 hours at a temperature of 23±2°C and relative humidity of 50±5%.

The sample was tested in a room of volume 25m^3 and 19ºC.

Procedure

The test was carried out in accordance with BS EN 1021-2:2014. The sponsor sampled the material and the specimens were cut from the sample received to the dimensions set out in the standard.

The sample was tested over non-fire retardant polyurethane foam with a density of approximately 20-22kg/m^3.

Tests were made using ignition source 1.

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Client: **SVENSSON**

Requirements

The specimens shall not:-

Smouldering Criteria

a) display escalating combustion requiring active extinction.
b) smoulders until it is essentially consumed within the test duration.
c) smoulder to the extremities of the specimen, or through the full thickness, within the duration of the test.
d) smoulder for more than one hour.
e) show evidence of charring, other than discolouration, for more than 100mm in any direction apart from the nearest part of the original position of the source.

Flaming Criteria

a) display escalating combustion requiring active extinction.
b) burns until it is essentially consumed within the test duration.
c) burns to the extremities of the specimen, or through the full thickness, within the duration of the test.
d) exhibit any flaming for more than 120 seconds after removal of the burner tube.

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Results

	Specimen No.		
Smouldering criteria	**1**	**2**	**3[1]**
Placement of Butane Flame	**Flat**	**Flat**	---
Unsafe escalating combustion	No	No	---
Testing assembly consumed	No	No	---
Smoulders to extremities/full thickness	No	No	---
Smoulders more than 1 hour	No	No	---
In final examination, presence of progressive smouldering	No	No	---

Flaming criteria	**1**	**2**	**3[1]**
Unsafe escalating combustion	No	No	---
Testing assembly consumed	No	No	---
Flames to extremities/full thickness	No	No	---
Flames longer than 120 seconds	No	No	---
Specimen Result (Ignition or Non-ignition)	**Non-Ignition (NI)**	**Non-Ignition (NI)**	**---**

Any “Yes” in smouldering or flaming criteria means Ignition

Match Test Result **PASS**

Note

The test results relate only to the ignitability of the combination 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.

Comment

An NI designation indicates that the sample meets the performance requirements of BS EN 1021-2.

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An estimation of uncertainty of measurement has been taken into account when making a judgment to any pass/fail criteria. Under our Policy we have used a non-binary decision rule.

See our Decision rules Policy (http://www.bttg.co.uk/decision-rules-policy) for further information.

Uncertainty Budget

The overall uncertainty budget for both BS EN 1021: Part 1 and 2:2014 is as follows:-

Timings: ±2 seconds.

Reported by:.....
B Bland
Technical Customer Service Officer

Countersigned By:.....
P Doherty
Manager

Enquiries concerning this report should be addressed to Customer Services.

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