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Email: info@bttg.co.uk
Website: www.bttg.co.uk

Date: 27 February 2020

Our Ref: 23/57320-1-3
Your Ref: -

Page: 1 of 6

Client: AB Ludvig Svensson
511 82 Kinna
Sweden

Job Title: Fire test on one sample of fabric

Client's Order No: -

Date of Receipt: 17 February 2020
Date of Test Start: 26 February 2020

Description of Sample(s): One sample of fabric identified as follows was received for testing:

Debut, stated to be 78% wool, 10% viscose, 12% Ramie

Work Requested: We were asked to make the following test:

IMO FTP Code 2010 Part 8 (Upholstered Furniture)



1066

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AB Ludvig Svensson

Sample was identified as follows:

Debut, stated to be 78% wool, 10% viscose, 12% Ramie

Testing to IMO FTP Code 2010 : Part 8 – Test for Upholstered Furniture

Conditioning

Immediately prior to testing the samples was placed in indoor ambient conditions for 72 hours and then conditioned in a standard atmosphere of $20\pm 5^{\circ}\text{C}$ temperature and $50\pm 20\%$ relative humidity for at least 16 hours.

The samples were tested in a room of volume 25m^3 and 16°C .

Procedure

The samples was tested in accordance with IMO FTP Code 2010 : Part 8 using ignition sources 0 and 1. 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 combustion modified polyurethane foam with a density of approximately 36 kg/m^3 .

Requirements

Ignition Source 0 No progressive smouldering or flaming within 1 hour of the placement of the cigarette

Ignition Source 1 All progressive smouldering and flaming to cease within 120 sec of removal of the burner tube

Cigarette Specification (Source 0)

Dimensions (mm)	68mm x 8mm
Mass (g)	0.85
Smouldering Rate (mins/secs)	9.47

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Product Description

Company Name	AB Ludvig Svensson
Type of Furniture, e.g., Seat, Sofa, Office Chair, etc.	Not specified
Name and/or Identification of the Product Tested	Debut
Materials of the Product and its Composite Ratio (i)	78% wool, 10% viscose, 12% Ramie
Composition of Weave (ii)	Plain
Density (Number/Inch) the Number of Threads per Inch in both warp and weft; and	Warp: 18 Weft: 19
Yarn Number Count	Nm 8/2, Nm 4/2
Thickness (mm)	Not supplied by client
Mass per Unit Area (g/mm ²)	480g/m ²
Colour and Tone (iii)	White/Turquoise
Method and Quantity of Fire Retardant Treatment	None

- (i) Such as wool, nylon, polyester, etc.
- (ii) Such as plain, weave, twilled.
- (iii) If the product has a pattern, the representative colour shall be described.



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RESULTS

Sample Ref: Debut, stated to be 78% wool, 10% viscose, 12% Ramie

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Cigarette Test – Source 0

Specimen No.	1	2
Extinction Time (smouldering) (min)	25	25
Time of cover split	DNS	DNS
Melting (Yes/No)	No	No
Dripping (Yes/No)	No	No
Charring (Yes/No)	Yes	Yes
Progressive Smouldering (Yes/No)	No	No
Pass/Fail	PASS	PASS

Result of the Cigarette Test: PASS

Butane Flame Test – Source 1

Specimen No.	1	2
Time of Ignition (s)	5	6
Extinction time of flames after removal of burner (s)	1	1
Time to Cover Split (s)	DNS	DNS
Melting (Yes/No)	No	No
Dripping (Yes/No)	No	No
Charring (Yes/No)	Yes	Yes
Progressive smouldering (Yes/No)	No	No
Pass/Fail	PASS	PASS

Result of the Propane Flame Test: PASS

Acronym

DNP – Did not propagate
ME – Manually extinguished
DNS – Material did not split
BTE – Burnt to extremities

EC – Escalating combustion
ES – Escalating smouldering
DNO – Did not observe time of event



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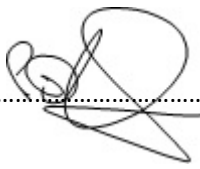
AB Ludvig Svensson

Comment

In our opinion, based on the test carried out on the sample supplied; the results indicate that the sample meets the requirements according to IMO FTP Code 2010, Part 8.

Uncertainty of measurement has not been taken into account when presenting the test result. The relevant uncertainty value is included as an annex which forms an integral part of the report.

Reported by: 
B Bland
Laboratory Technician

Countersigned By: 
P Doherty
Manager

Enquiries concerning this report should be addressed to Customer Services



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Uncertainty Budget – Annex

The overall uncertainty budget IMO FTP Code 2010 : Part 8 is as follows:

Measurements: $\pm 1\text{mm}$

Timings: ± 2 seconds



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