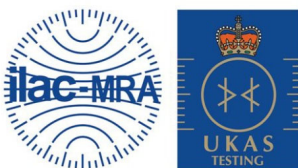




Confidential Report

Our Ref: 56070-1



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Notified Body
for PPE Directive,
Construction Products Regulation
& Marine Equipment Directive
I.D. No. 0338 & 0339



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Date: 26 February 2019

Our Ref: 56070-1
Your Ref: 3248552

Page: 1 of 5

Client: Kvadrat A/S
Lundbergsvej 10
8400 Ebeltoft
Denmark

Job Title: Fire Test on One Sample of Fabric

Client's Order No: 3248552

Date of Receipt: 19 February 2019

Description of Sample(s): One sample of fabric, referenced Avalon by Sahco, stated to be 100% Trevira CS

Work Requested: We were asked to make the following test(s):

IMO FTP Code 2010 Part 8 (Upholstered Furniture)

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



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Client: Kvadrat A/S

Product Description

Company Name	Sahco GmbH
Type of Furniture, e.g., Seat, Sofa, Office Chair, etc;.	Not supplied by client
Name and/or Identification of the Product Tested	Avalon
Materials of the Product and its Composite Ratio (i)	100% Trevira CS
Composition of Weave (ii)	Dobby/Velvet
Density (Number/Inch) the Number of Threads per Inch in both warp and weft; and	Warp: 22/cm Pile: 21/cm Weft: 27/cm
Yarn Number Count	Not supplied by client
Thickness (mm)	Approx. 2mm
Mass per Unit Area (g/mm ²)	App.: 514 g/m ²
Colour and Tone (iii)	Not supplied by client
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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Client: Kvadrat A/S

FIRE TESTS ACCORDING to IMO FTP Code 2010 : Part 8 Test for Upholstered Furniture

Date of test: 26 February 2019

Conditioning

Immediately prior to testing the sample 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 sample was tested in a room of volume 25m^3 and 17°C .

Procedure

The sample 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 $36\text{kg}/\text{m}^3$.

Requirements

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

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

Cigarette Specification (Source 0)

Dimensions (mm)	69mm x 8mm
Mass (g)	0.85
Smouldering Rate (mins/secs)	9.04



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Client: Kvadrat A/S

Results

Ignition Source	Specimen 1		Specimen 2	
	0 (Cigarette)	1 (Match)	0 (Cigarette)	1 (Match)
Ignition Time (secs.)	-	2	-	2
Extinction Time (Flame) (secs.)	-	1	-	1
Extinction Time (Smoke) (secs.)	17	11	16	13
Time of Cover Split (secs.)	DNO	8	DNO	8
Extent of Damage to Back (Length x Width)	70x20mm	20x115mm	70x20mm	20x115mm
Extent of Damage to Base (Length x Width)	70x15mm	15x15mm	70x15mm	15x15mm
Progressive smouldering/flaming observed	No	No	No	No
Performance	PASS	PASS	PASS	PASS

DNP – Did not propagate
ME – Manually extinguished
DNS – Material did not split
BES - Burnt to edge of specimen

EC – Escalating combustion
ES – Escalating smouldering
DNO – Did not observe time of event
BTTF – Burnt through thickness of foam

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.

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



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Client: Kvadrat A/S

Comment

In our opinion, based on the test carried out on the sample supplied; the results indicate the sample meets the requirements according to IMO 2010 FTP Code, 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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Client: Kvadrat A/S

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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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