

Confidential Report

Our Ref: 23/60380B/11/22







Telephone: +44 (0) 113 259 1999 Email: onestopshop@bttg.co.uk

Website: www.bttg.co.uk

Date: 30 November 2022

Our Ref: 23/60380B/11/22

Your Ref: 0559904

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Client: Kvadrat A/S

Lunbergsvej 10 8400 Ebeltoft Denmark

Job Title: Fire Test on One Fabric Sample

Clients Order Ref: 0559904

Date of Receipt: 16 November 2022

Date Test Started: 25 November 2022

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

Heather, stated to be 97% new wool, 3% recycled nylon

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

IMO FTP Code 2010:Part 8

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





Note: This report relates only to the items tested.



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Client: Kvadrat A/S

Product Description

Company Name	Kvadrat A/S	
FABRIC		
Type of Furniture, e.g., Seat, Sofa, Office Chair, etc;.	Upholstery Fabric	
Name and/or Identification of the Product Tested	Heather	
Materials of the Product and its Composite Ratio (i)	97% new wool, 3% recycled nylon	
Composition of Weave (ii)	Devon	
Density (Number/Inch) the Number of Threads per Inch in both warp and weft; and	Warp: 40, Weft: 22	
Yarn Number Count	Warp: 28/2NM, Weft: 1/9NM	
Thickness (mm)	1-2mm	
Mass per Unit Area (g/m²)	415 g/m2	
Colour and Tone (iii)	643	
Method and Quantity of Fire Retardant Treatment	None	
FILLINGS		
Material (Name of Manufacturer, Type Designation)		
Type of Filling Material (eg. Foam, Polyester Fibre etc.)		
Weight per Unit Volume (kg/m³)		
Method and Quantity of Fire Retardant Treatment		

- (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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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 23±2°C temperature and 50±5% relative humidity for at least 16 hours.

The samples were tested in a room of volume 25m³ and 18°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 non-fire retardant polyurethane foam with a density of approximately 20-22kg/m³.

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) 69mm x 8.0mm

Mass (g) 0.85 Smouldering Rate (mins/secs) 10m 03s







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Results

Cigarette Test - Source 0

Specimen No.	1	2
Extinction Time (smouldering) (min)	DNP	DNP
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
Observations	DNP DNS	DNP DNS
Pass/Fail	PASS	PASS

Result of the Cigarette Test: Pass

Propane Flame Test – Source 1

Specimen No.	1	2
Time of Ignition (s)	4	4
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
Observations:	DNS	DNS
Pass/Fail	PASS	PASS

Result of the Flame Test: Pass

Acronym

DNP - Did not propagate ES – Escalating smouldering BTE - Burnt to extremities





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EC – Escalating combustion DNS - Material did not split ME - Manually extinguished DNO - Did not observe time of event

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Kvadrat A/S Client:

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.

Where required to make a judgement to any pass/fail criteria an estimation of uncertainty of measurement has been taken into account. Under our Policy we have used a non-binary decision rule.

See our decision rules Policy (https://www.bttg.co.uk/about-us/decision-rules-policy/) for further information.

Uncertainty Budget

Measurements: ±2mm Timings: ±2 seconds.

...... B Bland, Technical Customer Services Officer Reported by:.....

Countersigned by:..... P Doherty, Manager

Enquiries concerning this report should be addressed to Customer Services.



