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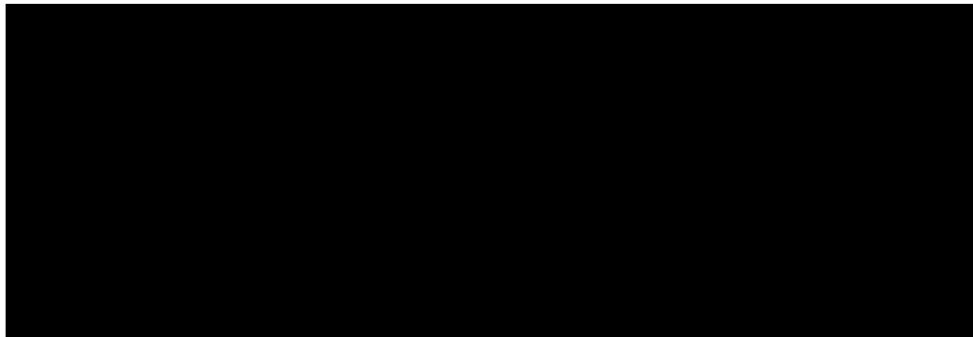
Date: 28 September 2023

Our Ref: 23/61390A/09/23

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Client:



Job Title: Fire Test on One Fabric Sample

Clients Order Ref: P43631

Date of Receipt: 20 September 2023

Date Test Started: 25 September 2023

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



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:



Product Description

Company Name	
FABRIC	
Type of Furniture, e.g., Seat, Sofa, Office Chair, etc;.	Upholstery
Name and/or Identification of the Product Tested	
Materials of the Product and its Composite Ratio (i)	100% Polyester with FR Backcoat
Composition of Weave (ii)	---
Density (Number/Inch) the Number of Threads per Inch in both warp and weft; and	---
Yarn Number Count	---
Thickness (mm)	---
Mass per Unit Area (g/m ²)	350gsm +/-10%
Colour and Tone (iii)	---
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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Client:

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 $23\pm 2^{\circ}\text{C}$ temperature and $50\pm 5\%$ relative humidity for at least 16 hours.

The samples were tested in a room of volume 25m^3 and 21°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 $20\text{-}22\text{kg/m}^3$.

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)	69mm x 8.0mm
Mass (g)	0.94
Smouldering Rate (mins/secs)	10m 06s





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Client: [REDACTED]

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	3
Extinction time of flames after removal of burner (s)	3	3
Time to Cover Split (s)	6	5
Melting (Yes/No)	No	No
Dripping (Yes/No)	No	No
Charring (Yes/No)	Yes	Yes
Progressive smouldering (Yes/No)	No	No
Observations:		
Pass/Fail	PASS	PASS

Result of the Flame Test: Pass

Acronym

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

EC – Escalating combustion
 DNS – Material did not split

ME – Manually extinguished
 DNO – Did not observe time of event





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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: $\pm 2\text{mm}$
Timings: ± 2 seconds.

Reported by:  R Walls, Laboratory Technician

Countersigned by:  B Bland, Technical Customer Service Officer

Enquiries concerning this report should be addressed to Customer Services.



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