



Confidential Report

Our Ref: 23/59647/04/22





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

Date: 9 May 2022

Our Ref: 23/59647/04/22
Your Ref: 83A17056

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Client: **Camira Fabrics Limited**

The Watermill
Wheatley Park
Mirfield
West Yorkshire
WF14 8HE

Job Title: Fire Test on One Fabric Sample

Clients Order Ref: 83A17056

Date of Receipt: 29 April 2022

Date Test Started: 6 May 2022

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

Main Line Flax / Twist

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



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

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Client: **Camira Fabrics Limited**

Product Description

| | |
|---------------------------------------------------------------------------------|----------------------------------|
| Company Name | Camira Fabrics |
| FABRIC | |
| Type of Furniture, e.g., Seat, Sofa, Office Chair, etc.; | Upholstery Fabric |
| Name and/or Identification of the Product Tested | Main Line Flax/Twist |
| Materials of the Product and its Composite Ratio (i) | 75% Virgin Wool, 25% Flax |
| Composition of Weave (ii) | Dobby Weave |
| Density (Number/Inch) the Number of Threads per Inch in both warp and weft; and | IP |
| Yarn Number Count | IP |
| Thickness (mm) | 1.55 (Nominal) |
| Mass per Unit Area (g/m ²) | 4.37 g/m² |
| Colour and Tone (iii) | HMLF19 |
| Method and Quantity of Fire Retardant Treatment | n/a |
| FILLINGS | |
| Material (Name of Manufacturer, Type Designation) | -- |
| Type of Filling Material (eg. Foam, Polyester Fibre etc.) | -- |
| Weight per Unit Volume (kg/m ³) | -- |
| 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: **Camira Fabrics Limited**

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 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 $20\text{-}22\text{kg/m}^3$.

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) | 0.83 |
| Smouldering Rate (mins/secs) | 9m 34s |



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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) | 8 | 9 |
| 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

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.

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

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

Reported by:  B Bland, Technical Customer Services Officer

Countersigned by:  P Doherty, Manager

Enquiries concerning this report should be addressed to Customer Services.



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