



Confidential Report

Our Ref: 23/61279/08/23





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: 8 August 2023

Our Ref: 23/61279/08/23
Your Ref: ---

Page: 1 of 5

Client: **Camira Fabrics Ltd**

The Watermill
Wheatley Park
Mirfield
West Yorkshire
WF14 8HE

Job Title: Fire Test on One Fabric Sample

Clients Order Ref: 83A23541

Date of Receipt: 4 August 2023

Date Test Started: 8 August 2023

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

Penta, Batch: 521818, Colour: D1359F

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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 Page: 2 of 5

Client: **Camira Fabrics Ltd**

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 | Penta |
| Materials of the Product and its Composite Ratio (i) | 90% Wool, 19% Nylon |
| 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) | Not measured |
| Mass per Unit Area (g/m ²) | 330 g/m² (nominal) |
| Colour and Tone (iii) | D1359F (Teal) |
| Method and Quantity of Fire Retardant Treatment | None applied |
| 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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Page: 3 of 5

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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 $23\pm 2^{\circ}\text{C}$ 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) | 0.93 |
| Smouldering Rate (mins/secs) | 9m 42s |



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Page: 4 of 5

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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) | 5 | 5 |
| Extinction time of flames after removal of burner (s) | 2 | 4 |
| 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.

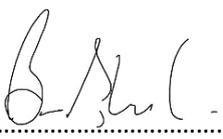
Where required to make a judgement to any pass/fail criteria an estimation of uncertainty of measurement has been taken into account. Under our Policy we have used a non-binary decision rule.

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 Greasley, Laboratory Technician

Countersigned by:  B Bland, Technical Customer Service Officer

Enquiries concerning this report should be addressed to Customer Services.

