

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: 23 June 2022

Our Ref: 23/59840E1/06/22

Your Ref: ---

Page: 1 of 5

Client:

Shirley Technologies Ltd
Wira House, West Park Ring Road
Leeds, LS16 6QL
West Yorkshire
LS16 6QL

Job Title:

Fire Test on One Fabric Sample

Clients Order Ref:

Date of Receipt:

16 June 2022

Date Test Started:

21 June 2022

Description of Sample:

One sample of fabric, which was referenced by the client as;
Rosita. Customers reference: Omega

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

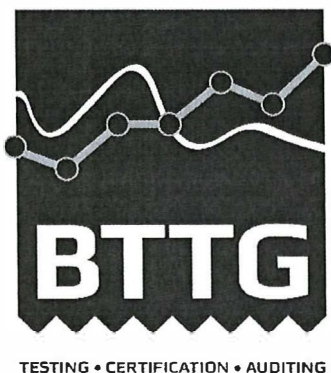
Note: This report relates only to the items tested.



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Client:

Product Description

| | |
|---|--|
| Company Name | |
| FABRIC | |
| Type of Furniture, e.g., Seat, Sofa, Office Chair, etc.; | Upholstery furniture (sofa's etc) |
| Name and/or Identification of the Product Tested | ROSITA |
| Materials of the Product and its Composite Ratio (i) | 62% Viscose, 28% Polyester , 10% Acrylic FR |
| Composition of Weave (ii) | Jacquard woven velvet |
| Density (Number/Inch) the Number of Threads per Inch in both warp and weft; and | Warp: 54.8/cm, Weft: 13/cm |
| Yarn Number Count | Warp: 167/2dtex, Pile: Vi 16/2Ne, Weft: 7/1Ne |
| Thickness (mm) | |
| Mass per Unit Area (g/m ²) | 649 gr/M² (after treatment) |
| Colour and Tone (iii) | Multicoloured |
| Method and Quantity of Fire Retardant Treatment | FR inherent weft, FR backcoating |
| FILLINGS | |
| Material (Name of the Manufacturer, Type Designation); | |
| Weight per Unit Volume (kg/m ³) | |
| For Products Where Thickness is Difficult to Measure Exactly Square Density (g/m ²) | |
| Method and Quantity of Fire Retardant Treatment | |

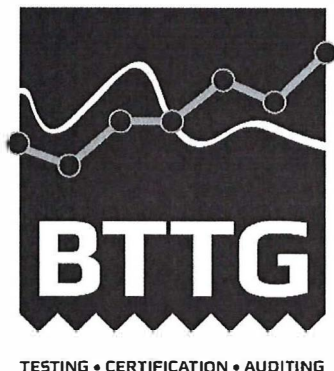
- (i) Such as wool, nylon, polyester, etc.
- (ii) Such as plain, weave, twilled.
- (iii) If the product has a pattern, the representative colour shall be described.



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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 $23\pm 2^{\circ}\text{C}$ 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)

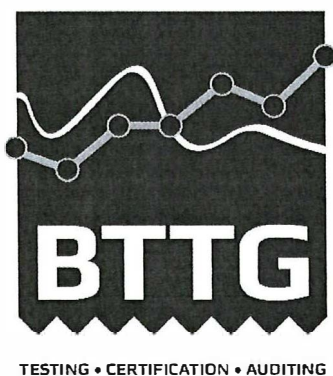
| | |
|------------------------------|--------------|
| Dimensions (mm) | 69mm x 8.0mm |
| Mass (g) | 0.84 |
| Smouldering Rate (mins/secs) | 10m 02s |



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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) | 62 | 91 |
| Time to Cover Split (s) | DNO | DNO |
| Melting (Yes/No) | No | No |
| Dripping (Yes/No) | No | No |
| Charring (Yes/No) | Yes | Yes |
| Progressive smouldering (Yes/No) | No | No |
| Observations: | DNO | DNO |
| 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

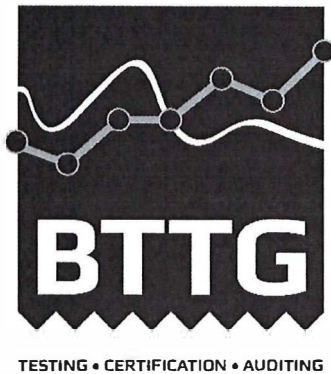
ME – Manually extinguished
 DNO – Did not observe time of event



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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 (<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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