



Confidential Report

Our Ref: 23/62353G1/08/24





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: 03 September 2024

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Client:

Solar Solve Ltd

7, Waldrige Way
Simonside Industrial Park
South Shields
Tyne and Wear
NE34 9PZ

Job Title:

Fire Test on One Material Sample

Clients Order Ref:

Date of Receipt:

22 August 2024

Date Test Started:

28 August 2024

Description of Sample:

One sample of material, which was referenced by the client as;
ROLASOLV PVC

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: Solar Solve Ltd

Product Description

Company Name	Solar Solve Ltd
FABRIC	
Type of Furniture, e.g., Seat, Sofa, Office Chair, etc;.	Roller Blind Fabric
Name and/or Identification of the Product Tested	ROLASOLV Blackout Fabric
Materials of the Product and its Composite Ratio (i)	Plastified Fibreglass (23% fibreglass, 69% PVC & 8% adhesive)
Composition of Weave (ii)	N/S
Density (Number/Inch) the Number of Threads per Inch in both warp and weft; and	N/S
Yarn Number Count	N/S
Thickness (mm)	0.31mm
Mass per Unit Area (g/m ²)	340
Colour and Tone (iii)	N/S
Method and Quantity of Fire Retardant Treatment (type and amount per m ²)	N/S

- (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)	0.91
Smouldering Rate (mins/secs)	9m 40s



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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

EC – Escalating combustion
 DNS – Material did not split

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



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Note

The test results relate to the behaviour of the test specimens of a product under the particular conditions of the test; they are not intended to be the sole criterion for assessing the potential fire hazard of the product in use.

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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