



Confidential Report

Our Ref: 27/05663B/07/21





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

Date: 13 August 2021

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Your Ref: ---

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Client:

Saint Clair Textiles

415 Avenue De Savoie
38110 la Tour Du Pin
Cedex
France

Job Title:

Fire Test on One Sample of Coated Fabric

Clients Order Ref:

AC 44467

Date of Receipt:

19 July 2021

Description of Sample:

One sample of fabric, referenced; LAC640SL.

Work Requested:

We were asked to make the following test(s):

BS 7837

- * subcontracted test, UKAS accredited
- ** subcontracted test, EN ISO/IEC 17025 accredited
- *** not UKAS accredited

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

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FIRE TESTS ACCORDING TO BS 7837:1996 (2015) **Specification for Flammability Performance for Textiles Used in the Construction of Marquees and Similar Tented Structures**

Date of test: 11/08/2021

Conditioning

Prior to testing commencing the sample was water-soaked and then conditioned for at least 24 hours in an atmosphere having a temperature of $20 \pm 2^\circ\text{C}$ and a relative humidity of $65 \pm 5\%$.

Procedure

The test was carried out in accordance with the above standard. The sponsor sampled the material and the specimens were cut from the sample received to the dimensions set out in the standard. Three length and three width specimens were tested.

Test 2B (bottom edge ignition) of BS 5438:1989 was used together with a flame application time of 10 seconds, as specified.

In addition, a piece of filter paper with specified characteristics was placed 55mm below the specimen to detect flaming debris.

The following parameters were determined:-

1. Duration of flaming
2. Extent of damage
3. Filter paper ignition, if applicable



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Performance

The sample shall be deemed to perform satisfactorily (pass) if, for at least five of the six test specimens:

- (a) the duration of flaming does not exceed 5s after removal of the igniting flame; and
- (b) the lowest boundary of any flame does not reach the upper edge or either vertical edge; and
- (c) the filter paper does not smoulder or flame.

The sample shall be deemed not to conform to BS 7837:1996 (2015) if more than two test specimens show any of the effects listed in (a) to (c) above. If two test specimens show any of the above effects then a further six specimens shall be tested. In this case, the sample shall be deemed to pass if five of the second set of six specimens performs satisfactorily.

Results

<u>Direction</u>	<u>Duration of Flaming (s)</u>	<u>Duration of Afterglow (s)</u>	<u>Flaming Debris</u>	<u>Flame on any Edge</u>	<u>Hole on any Edge</u>	<u>Glow Reached any Edge</u>	<u>Max length Damage (mm)</u>
Warp	1	1	No	No	No	No	40
	1	1	No	No	No	No	45
	0	0	No	No	No	No	50
Weft	0	0	No	No	No	No	46
	1	1	No	No	No	No	51
	0	0	No	No	No	No	40

The test results relate only to the ignitability of the combination of materials under the particular conditions of test; they are not intended as a means of assessing the full potential fire hazard of the materials in use.



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Comments

The results indicate that the sample met the above performance requirements.

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.

Reported by:..... *B Marsden* B Marsden (Mrs), Senior Fire Technician

Countersigned by:..... *P Doherty* P Doherty Manager

Enquiries concerning this report should be addressed to Customer Services.



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Uncertainty Budget - Annex

The overall uncertainty budget for BS 7837:1996 (2015) is as follows:-

Timings: ± 0.5 seconds.



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