



Confidential Report

Our Ref: 23/61060/05/23





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 June 2023

Our Ref: 23/61060/05/23

Your Ref: ---

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Client:

Pugi RG Srl

Via Garibaldi, 338
51037 Montale Pistoia (PT)
Italy

Job Title:

Fire Test on One Fabric Sample

Clients Order Ref:

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Date of Receipt:

26 May 2023

Date Test Started:

8 June 2023

Description of Sample:

One sample of fabric, which was referenced by the client as;
Mirage Eco, stated to be 100% polyester flame retardant recycled

Work Requested:

We were asked to make the following fire test:

BS 5852: Clause 11:2006 (2011)

- * 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 items tested.

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Testing BS 5852: Clause 11: 2006 (2011) Assessment of the ignitability of upholstered seating by Smouldering and Flaming sources – Source 5 (Crib 5)

Pre-Treatment

The material received no pre-treatment as the fabric stated to be inherently flame retardant.

Conditioning

The sample was conditioned in the environments specified in Clause 10 of BS 5852: 2006 (2011).

Testing

The material was tested according to BS 5852:2006 (2011) Methods of test for the ignitability of upholstered composites for seating by flaming sources using Source 5 (Crib 5).

The sample was tested at 20°C and 47% relative humidity (R.H.).

The sample was tested over combustion modified polyurethane foam with a density of approximately 49-51kg/m³.



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Results

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

	Specimen 1	Specimen 2
Time of Ignition (mins/secs)	0.07	0.05
Time of Flame Extinction (mins/secs)	3.12	3.06
Time of Smoke Extinction (mins/secs)	7.01	6.51
Time of cover split (mins/secs)	0.09	0.07
Extent of damage (mm) - Seat		
Width	137	132
Length	104	113
Depth	54	54
Extent of damage (mm) - Back		
Width	99	91
Depth	36	44
Melting	Yes	Yes
Dripping	No	No
Charring	Yes	Yes
Comments and Observations		
Specimen Result (Ignition or Non-ignition)	Non-Ignition	Non-Ignition

Acronyms

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

EC – Escalating combustion
 BTT – Burnt through thickness of foam

DNS – Material did not split
 BTE – Burnt to extremities



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Comment

The results indicate 'Non-Ignition' of the materials and the test is designated NI/5 (ie. Pass).

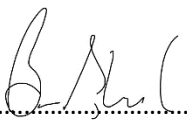
Where required to make a judgement to any pass/fail criteria an estimation of uncertainty of measurement has been taken into account. Under our Policy we have used a non-binary decision rule.

See our decision rules Policy (<https://www.bttg.co.uk/about-us/decision-rules-policy/>) for further information.

Uncertainty Budget

Measurements: ± 2 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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