



Confidential Report

Our Ref: 23/58942B/09/21





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: 30 September 21

Our Ref: 23/58942B/09/21
Your Ref: ---

Page: 1 of 4

Client: **Gabriel A/S**

Hjulgagerve 55
DK-900 Aalborg
Denmark

Job Title: Fire Test on One Fabric Sample

Clients Order Ref: 0011558968

Date of Receipt: 23 September 2021

Date Test Started: 27 September 2021

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

Reference: Step Melange / Dark Grey
Number: 5407520000
Composition: 100% Trevira CS

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 samples submitted and as described in the report.

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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 and tested 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 19°C and 63% relative humidity (R.H.).

The sample was tested over combustion modified polyurethane foam with a density of approximately 35-36kg/m³.



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Page: 3 of 4

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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 (s)	16	9
Time of Flame Extinction (s)	177	182
Time of Smoke Extinction (s)	276	493
Time of cover split	17	10
Extent of damage (mm) - Seat		
Width	113	131
Length	108	88
Depth	57	61
Extent of damage (mm) - Back		
Width	93	106
Length	334	380
Depth	31	59
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

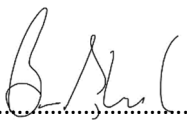
The results indicate 'Non-Ignition' of the materials and the test is designated NI/5 (ie. Pass).

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.

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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