



Confidential Report

Our Ref: 23/58848A/08/21





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: 24 August 2021

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Your Ref: ---

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Client: **Gabriel A/S**

Hjulgagerve 55
DK-900 Aalborg
Denmark

Job Title: Fire Test on One Fabric Sample

Clients Order Ref: 0011547263

Date of Receipt: 12 August 2021

Date Test Started: 24 August 2021

Description of Sample: One sample of fabric, which was referenced by the client as;
Blend 01102 Blue. Design No: 231601101

Work Requested: We were asked to test the received sample to the following standard:
BS EN 1021:Part 1:2014 – Ignitability of Upholstered Furniture

- * 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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FIRE TEST ACCORDING TO BS EN 1021-1:2014

Assessment of the ignitability of upholstered furniture. Part I. Ignition Source 0: Smouldering cigarette

Pre-Treatment

The material received no pre-treatment as the fabric is stated not to be FR treated.

Conditioning

The sample was conditioned for at least 16 hours at a temperature of $23\pm 2^{\circ}\text{C}$ and relative humidity of $50\pm 5\%$.

The sample was tested in a room of volume 25m^3 and 20°C .

Procedure

The test was carried out in accordance with BS EN 1021-1:2014. 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 $20\text{--}22\text{ kg/m}^3$.

Tests were made using ignition source 0.

Requirements

The specimens shall not:-

Smouldering Criteria

- display escalating combustion requiring active extinction.
- smoulder or burn until it is essentially consumed within the test duration.
- smoulder or burn to the extremities of the specimen, or through the full thickness, within the duration of the test.
- smoulder for more than one hour.
- on final examination, show evidence of progressive smouldering.



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Requirements (continued)

Flaming Criteria

- a) show evidence of flaming initiated by a smouldering source.

Results

	Specimen No.	
Smouldering criteria	1	2
Placement of Cigarette	Flat	Flat
Unsafe escalating combustion	No	No
Testing assembly consumed	No	No
Smoulders to extremities/full thickness	No	No
Smoulders more than 1 hour	No	No
In final examination, presence of progressive smouldering	No	No

Flaming criteria	1	2
Occurrence of flames	No	No
Specimen Result (Ignition or Non-ignition)	Non-Ignition (NI)	Non-Ignition (NI)

Any “Yes” in smouldering or flaming criteria means Ignition

Cigarette Test Result **PASS**

Note

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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Comment

An NI designation indicates the sample meets the performance requirements of BS EN 1021-1.

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.

The overall uncertainty budget for BS EN 1021:Part 1:2014 is as follows:-

Timings: ± 2 seconds.

Reported by:.....
B Bland
Technical Customer Service Officer

Countersigned By:.....
P Doherty
Manager

Enquiries concerning this report should be addressed to Customer Services.



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