



Confidential Report

Our Ref: 23/59121C2/11/21





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: 12 January 2022

Our Ref: 23/59121C2/11/21
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:

0011572342

Date of Receipt:

24 November 2021

Date Test Started:

12 January 2022

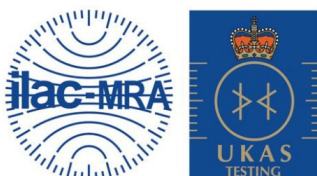
Description of Sample:

One sample of fabric, which was referenced by the client as;
Fame 60078 Grey, stated to be: 95% Wool/5% Polyamide

Work Requested:

We were asked to make the following fire test:
BS EN 1021:Part 2:2014 – 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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Page: 2 of 4

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FIRE TESTS ACCORDING TO BS EN 1021-2:2014

Assessment of the ignitability of upholstered furniture. Part 2. Ignition Source 1: Match flame equivalent.

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 16°C .

Procedure

The test was carried out in accordance with BS EN 1021-2:2014. 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 1.

Requirements

The specimens shall not:-

Smouldering Criteria

- display escalating combustion requiring active extinction.
- smoulders until it is essentially consumed within the test duration.
- smoulder to the extremities of the specimen, or through the full thickness, within the duration of the test.
- smoulder for more than one hour.
- show evidence of charring, other than discolouration, for more than 100mm in any direction apart from the nearest part of the original position of the source.



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Page: 3 of 4

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Requirements (Continued)

Flaming Criteria

- a) display escalating combustion requiring active extinction.
- b) burns until it is essentially consumed within the test duration.
- c) burns to the extremities of the specimen, or through the full thickness, within the duration of the test.
- d) exhibit any flaming for more than 120 seconds after removal of the burner tube.

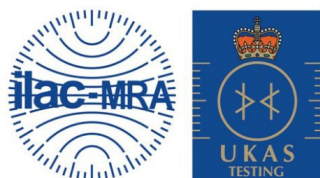
Results

Smouldering criteria	Specimen No.		
	1	2	3 ¹
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	3 ¹
	Unsafe escalating combustion	No	No
Testing assembly consumed	No	No	---
Flames to extremities/full thickness	No	No	---
Flames longer than 120 seconds	No	No	---
Specimen Result			
Ignition (I) / Non Ignition (NI)	NI	NI	---

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 that the sample meets the performance requirements of BS EN 1021-2.


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

The overall uncertainty budget for BS EN 1021: Part 2:2014 is as follows:-

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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