



## Confidential Report

**Our Ref: 23/61362G-Supp/12/24**





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Date: 10 December 2024

Our Ref: 23/61362G-suppl/12/24

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**Client:**

**Gabriel A/S**

Hjulgagervej 55  
DK-900 Aalborg  
Denmark

**Job Title:**

Fire Test on One Fabric Sample

**Clients Order Ref:**

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**Date of Receipt:**

8 September 2023

**Date Test Started:**

14 September 2023

**Description of Sample:**

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

Cyber FR

This is a supplementary report to the one issued on the 13<sup>th</sup> September 2023 under our report reference 23/61362F/09/23.

**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

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 was subjected to the water soak procedure according to BS 5852:Annex E:2006 (2011).

### 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 22°C and 56% relative humidity (R.H.).

The sample was tested over combustion modified polyurethane foam with a density of approximately 34-36kg/m<sup>3</sup>.



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Client: **Gabriel A/S**

## 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)	0.13	0.14
Time of Flame Extinction (mins/secs)	5.35	7.01
Time of Smoke Extinction (mins/secs)	8.40	8.41
Time of cover split (mins/secs)	DNO	DNO
<b>Extent of damage (mm) - Seat</b>		
Width	155	152
Length	97	96
Depth	52	47
<b>Extent of damage (mm) - Back</b>		
Width	159	164
Depth	58	54
Melting	Yes	Yes
Dripping	No	No
Charring	Yes	Yes
Comments and Observations	DNO	DNO
<b>Specimen Result (Ignition or Non-ignition)</b>	<b>Non-Ignition</b>	<b>Non-Ignition</b>

## 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:  $\pm 2$  mm  
Timings:  $\pm 2$  seconds

Reported by:  R Walls, Laboratory Technician

Countersigned by:  B Bland, Technical Customer Service Officer

Enquiries concerning this report should be addressed to Customer Services.



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