



# Confidential Report

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





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Date: 10 December 2024

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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:** --

**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;

CrissCross FR

This is a supplementary report to the one issued on the 13<sup>th</sup> September 2023 under our report reference 23/61362E/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 21°C and 55% 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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## 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)	0.20	0.18
Time of Flame Extinction (mins/secs)	4.01	4.26
Time of Smoke Extinction (mins/secs)	5.38	6.04
Time of cover split (mins/secs)	DNO	DNO
<b>Extent of damage (mm) - Seat</b>		
Width	101	88
Length	76	68
Depth	38	36
<b>Extent of damage (mm) - Back</b>		
Width	85	92
Depth	24	33
Melting	No	No
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 Greasley, Laboratory Technician

Countersigned by:..... B Bland, Technical Customer Service Officer

Enquiries concerning this report should be addressed to Customer Services.

