



# Confidential Report

**Our Ref: 23/59121L/11/21**





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Date: 4 January 2022

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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:**

0011572343

**Date of Receipt:**

24 November 2021

**Date Test Started:**

23 December 2021

**Description of Sample:**

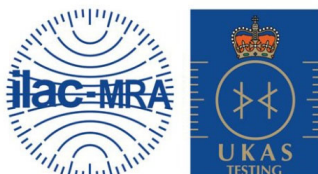
One sample of fabric, which was referenced by the client as;  
Swing/Light Grey, stated to be: 54% WO/44% PES/2% PA

**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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**Client:** Gabriel A/S

## **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  $25\text{m}^3$  and  $45^{\circ}\text{C}$ .

#### **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  $20\text{-}22\text{ kg/m}^3$ .

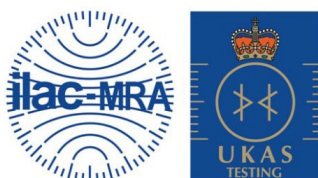
Tests were made using ignition source 0.

#### **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**

	<b>Specimen No.</b>		
<b>Smouldering criteria</b>	<b>1</b>	<b>2</b>	<b>3<sup>1</sup></b>
Unsafe escalating combustion	No	No	No
Testing assembly consumed	No	No	No
Smoulders to extremities/full thickness	No	No	No
Smoulders more than 1 hour	No	No	No
In final examination, presence of progressive smouldering	No	No	No

<b>Flaming criteria</b>	<b>1</b>	<b>2</b>	<b>3<sup>1</sup></b>
Occurrence of flames	No	No	No
<b>Specimen Result</b> Ignition (I) / Non Ignition (NI)	<b>NI</b>	<b>NI</b>	<b>NI</b>

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:  $\pm 2$  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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