



# Confidential Report

**Our Ref: 23/58449-3-2**





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Date: 28 April 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:**

0011530517

**Date of Receipt:**

14 April 2021

**Date Test Started:**

22 April 2021

**Description of Sample:**

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

Item Description: Athlon Plus 60140 L. Grey, Item Number: 650160140, stated to be 56% PES, 44% Trevira CS

**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 sample did not have a flame retardant treatment therefore it was not subjected to a water soak pre-treatment

#### **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  $17^{\circ}\text{C}$ .

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

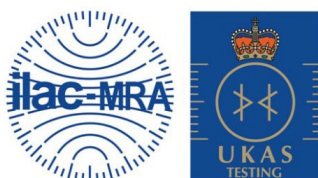
Tests were made using ignition source 0.

#### **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>1</b>	<b>2</b>
<b>Smouldering criteria</b>	<b>1</b>	<b>2</b>
<b>Placement of Cigarette</b>	<b>Flat</b>	<b>Flat</b>
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
<b>Flaming criteria</b>	<b>1</b>	<b>2</b>
Occurrence of flames	No	No
<b>Specimen Result</b> (Ignition or Non-ignition)	<b>Ignition (I)</b>	<b>Ignition (I)</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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## Comments

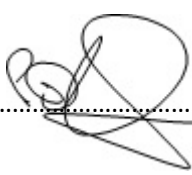
An NI designation indicates the sample meets the performance requirements of BS EN 1021-1.

This report relates only to the samples submitted and as described in the report.

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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