

# **Confidential Report**

Our Ref: 23/60874A/04/23







Telephone: +44 (0) 113 259 1999 Email: onestopshop@bttg.co.uk

Website: www.bttg.co.uk

Date: 9 May 2023

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Client:	Gabriel A/	5

Hjulmagerve 55 DK-900 Aalborg Denmark

Job Title: Fire Test on One Fabric Sample

Clients Order Ref: -

Date of Receipt: 26 April 2023

Date Test Started: 9 May 2023

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

Renewed Loop 60338 Grey in combination with HR5050 foam as supplied by

Vita Baltic on behalf of Gabriel.

Work Requested: We were asked to test the received sample to the following standard:

BS EN 1021:Parts 1 & 2:2014 - Ignitability of Upholstered Furniture

- 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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Gabriel A/S Client:

# 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 materials for testing to Source 0 and 1 were conditioned for a minimum of 24 hours and tested in the environments specified in Clause 7 of BS EN 1021-1 & 2:2014.

The sample was tested in a room of volume 25m<sup>3</sup> and 20°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 49-51kg/m<sup>3</sup> as supplied by Vita Baltic

Tests were made using ignition source 0.

#### Requirements

The specimens shall not:-

#### **Smouldering Criteria**

- a) display escalating combustion requiring active extinction.
- b) 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. c)
- d) smoulder for more than one hour.
- e) 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**

	Specimen No.		
Smouldering criteria	1	2	<b>3</b> 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	No	No	
smouldering			

Flaming criteria	1	2	<b>3</b> ¹
Occurrence of flames	No	No	
Specimen Result	NI	NI	
Ignition (I) / Non Ignition (NI)	141	141	

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.

#### **Comments**

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







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Client: Gabriel A/S

#### 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 24 hours at a temperature of  $23\pm2^{\circ}$ C and relative humidity of  $50\pm5\%$ .

The sample was tested in a room of volume 25m<sup>3</sup> and 20°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 49-51kg/m<sup>3</sup> as supplied by Vita Baltic.

Tests were made using ignition source 1.





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Gabriel A/S Client:

# Requirements

The specimens shall not:-

# **Smouldering Criteria**

- a) display escalating combustion requiring active extinction.
- b) 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. c)
- d) smoulder for more than one hour.
- show evidence of charring, other than discolouration, for more than 100mm in any direction apart from the e) nearest part of the original position of the source.

# Flaming Criteria

- a) display escalating combustion requiring active extinction.
- burns until it is essentially consumed within the test duration. b)
- 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.





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**Client:** Gabriel A/S

#### **Results**

Smouldering criteria	Specimen No.		
	1	2	3 <sup>1</sup>
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	No	No	
progressive smouldering			

Flaming criteria	1	2	31
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	

Any "Yes" in smouldering or flaming criteria means Ignition

**PASS Match Test Result** 

#### 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.

### Comment

An NI designation indicates that the sample meets the performance requirements of BS EN 1021-2.







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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 (<a href="https://www.bttg.co.uk/about-us/decision-rules-policy/">https://www.bttg.co.uk/about-us/decision-rules-policy/</a>) for further information.

# **Uncertainty Budget**

The overall uncertainty budget for both BS EN 1021: Part 1 and 2:2014 is as follows:-

Timings: ±2 seconds. Measurements: ±2mm.

Reported by:..... **B** Bland

**Technical Customer Service Officer** 

Countersigned B

P Doherty Manager

Enquiries concerning this report should be addressed to Customer Services.



