

# **Confidential Report**

Our Ref: 23/58484/04/21





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Date: 06 May 2021

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Client:	Gabriel A/S
Circita	Gabrierry

Hjulmagerve 55 DK-900 Aalborg Denmark

Job Title: Fire Test on One Fabric Sample

Clients Order Ref: ---

Date of Receipt: 23 April 2021

Date Test Started: 05 May 2021

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

FA917 - Cyber

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, EN ISO/IEC 17025 accredited

\*\*\* not UKAS accredited







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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±2°C and relative humidity of 50±5%.

The sample was tested in a room of volume 25m<sup>3</sup> and 18ºC.

#### **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 combustion modified polyurethane foam with a density of approximately 35-36 kg/m<sup>3</sup>.

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.
- c) smoulder or burn to the extremities of the specimen, or through the full thickness, within the duration of the test.
- 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	
Placement of Cigarette	Flat	Flat	
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	

Flaming criteria	1	2	
Occurrence of flames	No	No	
Specimen Result (Ignition or Non-ignition)	Non-Ignition (NI)	Non-Ignition (NI)	

Any "Yes" in smouldering or flaming criteria means Ignition

# 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 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±2°C and relative humidity of 50±5%.

The sample was tested in a room of volume 25m<sup>3</sup> and 18°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 combustion modified polyurethane foam with a density of approximately 35-36 kg/m<sup>3</sup>.

Tests were made using ignition source 1.

# 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.
- c) smoulder to the extremities of the specimen, or through the full thickness, within the duration of the test.
- d) smoulder for more than one hour.
- e) show evidence of charring, other than discolouration, for more than 100mm in any direction apart from the nearest part of the original position of the source.





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# **Requirements (Continued)**

## Flaming Criteria

 $\ display\ escalating\ combustion\ requiring\ active\ extinction.$ 

burns until it is essentially consumed within the test duration.

burns to the extremities of the specimen, or through the full thickness, within the duration of the test. exhibit any flaming for more than 120 seconds after removal of the burner tube.

#### Results

	Match Flame Equivalent		Comments
	1	2	. comments
Smouldering Criteria (Yes/No)			
Unsafe escalating combustion	No	No	
Test assembly consumed	No	No	
Smoulders to extremities	No	No	
Smoulders through thickness	No	No	
Smoulders more than 1 hour	No	No	
In final examination, presence of progressive smouldering	No	No	
Ignitability Performance (Yes/No)			
Unsafe escalating combustion	No	No	
Test assembly consumed	No	No	
Flames to extremities	No	No	
Flames through thickness	No	No	
Flames longer than 120 seconds	No	No	
Ignition / Non Ignition ( I/NI )	NI	NI	

# 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 that the sample meets the performance requirements of BS EN 1021-2.

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

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

Timings: ±2 seconds.

Reported by:....

B Bland

**Technical Customer Service Officer** 

Countersigned By:.

P Doherty Manager

 $\label{lem:concerning} \mbox{Enquiries concerning this report should be addressed to Customer Services.}$ 

