



# Confidential Report

**Our Ref: 23/59329B/01/22**





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Date: 7 February 2022

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**Client:** Gudbrandsdalens Uldvarefabrik AS

P.O Box 836  
No-2626 Lillehammer  
Norway

**Job Title:** Fire Test on One Fabric Sample

**Clients Order Ref:** --

**Date of Receipt:** 25 January 2022

**Date Test Started:** 07 February 2022

**Description of Sample:** One sample of fabric, which was referenced by the client as;  
5218 Odal

**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



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

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Client: Gudbrandsdalens Uldvarefabrik AS

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

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

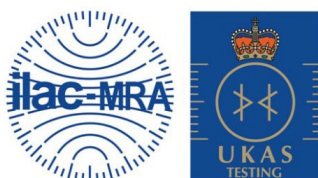
Tests were made using ignition source 0.

#### 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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**Client:** Gudbrandsdalens Uldvarefabrik AS

## Requirements (continued)

### Flaming Criteria

- a) show evidence of flaming initiated by a smouldering source.

### Results

	Specimen No.		
Smouldering criteria	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 progressive smouldering	No	No	---

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

### Comments

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



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Client: Gudbrandsdalens Uldvarefabrik AS

## 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 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 1021-2:2014. 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  $20\text{-}22\text{kg/m}^3$ .

Tests were made using ignition source 1.



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**Client:** Gudbrandsdalens Uldvarefabrik AS

## 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.

### Flaming Criteria

- a) display escalating combustion requiring active extinction.
- b) burns until it is essentially consumed within the test duration.
- 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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**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 progressive smouldering	No	No	---

Flaming criteria	1	2	3 <sup>1</sup>
	Unsafe escalating combustion	No	No
Testing assembly consumed	No	No	---
Flames to extremities/full thickness	No	No	---
Flames longer than 120 seconds	No	No	---
<b>Specimen Result</b> Ignition (I) / Non Ignition (NI)	<b>NI</b>	<b>NI</b>	---

Any “Yes” in smouldering or flaming criteria means Ignition

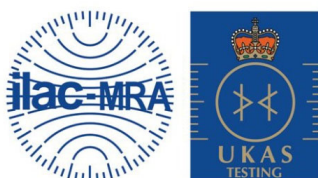
**Match Test Result**                      **PASS**

**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.

**Comment**

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





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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.

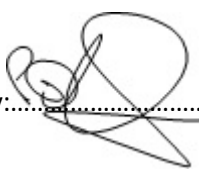
See our Decision rules Policy (<http://www.bttg.co.uk/decision-rules-policy>) for further information.

## Uncertainty Budget

The overall uncertainty budget for both BS EN 1021: Part 1 and 2:2014 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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