



# Confidential Report

**Our Ref: 23/59235A/12/21**





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Date: 12 January 2022

Our Ref: 23/59235A/12/21  
Your Ref: ---

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**Client:** **Ludvig Svensson AB**

A: 511 82 Kinna  
Sweden

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

**Clients Order Ref:** --

**Date of Receipt:** 23 December 2021

**Date Test Started:** 11 January 2022

**Description of Sample:** One sample of fabric, which was referenced by the client as;  
Cody, stated to be 85% wool, 15% Polyamide. Weight: 280 g/m2

**Work Requested:** We were asked to make the following fire test:

BS 5852: Clause 11:2006 (2011)

- \* 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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## **Testing BS 5852: Clause 11: 2006 (2011) Assessment of the ignitability of upholstered seating by Smouldering and Flaming sources – Source 5 (Crib 5)**

### **Pre-Treatment**

The material received no pre-treatment as the fabric is stated not to be FR treated.

### **Conditioning**

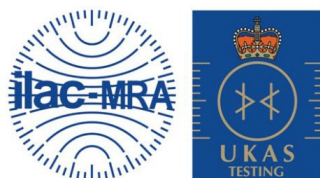
The sample was conditioned and tested in the environments specified in Clause 10 of BS 5852: 2006 (2011).

### **Testing**

The material was tested according to BS 5852:2006 (2011) Methods of test for the ignitability of upholstered composites for seating by flaming sources using Source 5 (Crib 5).

The sample was tested at 17°C and 44% relative humidity (R.H.).

The sample was tested over combustion modified polyurethane foam with a density of approximately 35-36kg/m<sup>3</sup>.



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## Results

The following test results relate only to the ignitability of the combination of upholstery composites under the particular conditions of test stated; they are not intended as a means of assessing the full potential fire hazard of the materials or products in use.

	Specimen 1	Specimen 2
Time of Ignition (s)	35	39
Time of Flame Extinction (s)	211	273
Time of Smoke Extinction (s)	304	397
Time of cover split	97	91
<b>Extent of damage (mm) - Seat</b>		
Width	149	140
Length	126	118
Depth	49	44
<b>Extent of damage (mm) - Back</b>		
Width	123	152
Length	>400	>400
Depth	61	60
Melting	Yes	Yes
Dripping	No	No
Charring	Yes	Yes
Comments and Observations	--	--
<b>Specimen Result (Ignition or Non-ignition)</b>	<b>Non-Ignition</b>	<b>Non-Ignition</b>

## Acronyms

ME – Manually extinguished  
 DNO – Did not observe time of events

EC – Escalating combustion  
 BTT – Burnt through thickness of foam

DNS – Material did not split  
 BTE – Burnt to extremities



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## Comment

The results indicate 'Non-Ignition' of the materials and the test is designated NI/5 (ie. Pass).

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

Measurements:  $\pm 2$  mm

Timings:  $\pm 2$  seconds

Reported by:  B Bland, Technical Customer Services Officer

Countersigned by:  P Doherty, Manager

Enquiries concerning this report should be addressed to Customer Services.



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