



# Confidential Report

**Our Ref: 23/57869-1**



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Notified Body  
for PPE Directive,  
Construction Products Regulation  
& Marine Equipment Directive  
I.D. No. 0338 & 0339



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Date: 23 October 2020

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Client: FIDIVI Tessitura Vergnano Spa  
Regione Masio 19bis  
10046 Poirino  
Torino  
Italy

Job Title: Fire Test on One Sample of Fabric

Client's Order No: -

Date of Receipt: 15 October 2020

Description of Sample(s): One sample of fabric identified as follows was received for testing:  
Laser J Flash, stated to be 100% Trevira CS

Work Requested: We were asked to make the following test(s):  
BS 7176: 2007

- \* subcontracted test, UKAS accredited
- \*\* subcontracted test, EN ISO/IEC 17025 accredited
- \*\*\* not UKAS accredited



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**Client: FIDIVI Tessitura Vergnano Spa**

**Specification BS 7176: 2007 + A1:2011 Resistance to Ignition of Upholstered Furniture for non-domestic seating by testing composites using BS EN 1021:2006 Furniture – Assessment of the ignitability of upholstered furniture Parts 1 and 2 and BS 5852:Clause 11:2006**

### Pre-Treatment

The samples received no pretreatment as the fabric is stated to be inherently flame retardant.

### Conditioning

The materials for testing to Source 0 and 1 were conditioned and tested in the environments specified in Clause 7 of BS EN 1021:2006.

### Foam Used

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



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Client: FIDIVI Tessitura Vergnano Spa

### Testing to BS EN 1021-1:2006 – Source 0 – Cigarette

The sample was tested in accordance with BS EN ISO 1021-1:2006. The sample was tested over combustion modified polyurethane foam with a density of approximately 36kg/m<sup>3</sup>.

The test results relate only to the ignitability of the combustion 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 of products in use.

### Results

	Cigarette			Comments
	1	2	3 <sup>1</sup>	
<b>Smouldering Criteria (Yes/No)</b>				
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		
<b>Ignitability Performance (Yes/No)</b>				
Occurrence of flames	No	No		
Ignition / Non Ignition ( I/NI )	NI	NI		

Any “Yes” in smouldering or flaming criteria means Ignition

**Cigarette Test Result**

**PASS**



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**Client: FIDIVI Tessitura Vergnano Spa**

**BS EN 1021-2: 2006 – Source 1 – Butane Flame**

The sample was tested in accordance with BS EN ISO 1021-2:2006. The sample was tested over combustion modified polyurethane foam with a density of approximately 36kg/m<sup>3</sup>.

The test results relate only to the ignitability of the combustion 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 of products in use.

<b>Smouldering criteria</b>	<b>1</b>	<b>2</b>
Unsafe escalating combustion	No	No
Testing assembly consumed	No	No
Smoulders to extremities	No	No
Smoulders through thickness	No	No
Smoulders more than 1 hour	No	No
Char >100mm from source	No	No

<b>Flaming criteria</b>	<b>1</b>	<b>2</b>
Unsafe escalating combustion	No	No
Testing assembly consumed	No	No
Flames to extremities	No	No
Flames through thickness	No	No
Flames longer than 120 seconds	No	No

<b>Specimen Result</b> (Ignition or Non-ignition)	<b>Non-Ignition</b>	<b>Non-Ignition</b>

Any “Yes” in smouldering or flaming criteria means Ignition

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



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**Client: FIDIVI Tessitura Vergnano Spa**

**BS 5852: 2006 Source 5 – Crib 5**

The sample was tested in accordance with BS 5852:2006.

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

The test results relate only to the ignitability of the combustion 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 of products in use.

**Results**

The test results are shown in the tables below:-

	<b>Specimen 1</b>	<b>Specimen 2</b>
Time of Ignition (s)	11	12
Time of Flame Extinction (s)	237	258
Time of Smoke Extinction (s)	301	310
Time of cover split	17	17
<b>Extent of damage (mm) - Seat</b>		
Width	97	98
Length	129	115
Depth	51	50
<b>Extent of damage (mm) - Back</b>		
Width	329	343
Length	96	94
Depth	37	39
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  
 DNS – Material did not split  
 BTT – Burnt through thickness of foam

EC – Escalating combustion  
 DNO – Did not observe time of event  
 DNI – Did not ignite



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### Comment

The results indicate "Non-ignition" combustion of the materials is designated NI/5 (ie. Pass)

### Conclusion

The combination of materials meets BS 7176: 2007 for Medium Hazard.

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

Uncertainty of measurement has not been taken into account when presenting the test result. The relevant uncertainty value is included as an annex which forms an integral part of the report.

See BS 7176: 2007 + A1: 2011 Clause 6 for labelling and identification requirements. The test results relate only to the ignitability of the combination of upholstery composites under the particular conditions of test stated (BS EN 1021-1: 2006, BS EN 1021-2: 2006 and BS 5852: 2006 respectively); they are not intended as a means of assessing the full potential fire hazard of the materials or products in use.

Reported by:.....  
B Bland  
Laboratory Technician

Countersigned By:.....  
P Doherty  
Manager



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## Uncertainty Budget - Annex

The overall uncertainty budget for both BS 7176 : 2007 +A1 : 2011 is as follows:-

Measurements:  $\pm 2\text{mm}$   
Timings:  $\pm 2$  seconds.



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