



Confidential Report

Our Ref: 23/57064-15



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



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Website: www.bttg.co.uk

Date: 9 December 2019

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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: 26 November 2019

Description of Sample(s): Spazio

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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TESTING • CERTIFICATION • AUDITING

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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 sample was water-soaked and dried in accordance with BS EN 1021 Part 1:Annex D.

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/m³.



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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/m³. A cigarette having a mass of 1±0.2g was used.

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 ¹	
Smouldering Criteria (Yes/No)				
Unsafe escalating combustion	No	No	No	
Test assembly consumed	No	No	No	
Smoulders to extremities	No	No	No	
Smoulders through thickness	No	No	No	
Smoulders more than 1 hour	No	No	No	
In final examination, presence of progressive smouldering	No	No	No	
Ignitability Performance (Yes/No)				
Occurrence of flames	No	No	No	
Ignition / Non Ignition (I/NI)	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/m³.

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.

Smouldering criteria	1	2
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
Flaming criteria	1	2
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
Specimen Result	Non-Ignition	Non-Ignition
(Ignition or Non-ignition)		

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/m³.

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:-

	Specimen 1	Specimen 2
Time of Ignition (s)	19	-
Time of Flame Extinction (s)	>216 ME EC BTT	-
Time of Smoke Extinction (s)	-	-
Time of cover split	27	-
Extent of damage (mm) - Seat		
Width	191	-
Length	111	-
Depth	58	-
Extent of damage (mm) - Back		
Width	203	-
Length	401	-
Depth	>75	-
Melting	Yes	--
Dripping	No	--
Charring	Yes	--
Comments and Observations		
Specimen Result (Ignition or Non-ignition)	Ignition	--

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 "Ignition" combustion of the materials is designated I/5 (ie. Fail)

Conclusion

The combination of materials meets BS 7176: 2007 for Low 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: ± 2 seconds.



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