

Confidential Report

Our Ref: 23/60124/09/22







Telephone: +44 (0) 113 259 1999 Email: onestopshop@bttg.co.uk

Website: www.bttg.co.uk

Date: 13 September 2022

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Your Ref: ---

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Client:	The Sign AG

Neuseeland 32 9404 Roschacherberg Switzerland

Job Title: Fire Test on One Fabric Sample

Clients Order Ref: ---

Date of Receipt: 5 September 2022

Date Test Started: 9 September 2022

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

Royal Velvet 30640

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

BS 7176: 2007 + A1:2011 (Medium Hazard)

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





Note: This report relates only to the items tested.



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Client: The Sign AG

Specification BS 7176: 2007 + A1:2011 Resistance to Ignition of Upholstered Furniture for nondomestic 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 (Medium Hazard)

Pre-Treatment

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

Conditioning

The materials for testing to Source 0 and 1 were conditioned for a minimum of 24 hours and tested in the environments specified in Clause 7 of BS EN 1021-1 & 2:2006.

Foam Used

The sample was tested over combustion modified polyurethane foam with a density of approximately 35-36kg/m³.







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Client: The Sign AG

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

The sample was tested in accordance with BS EN 1021-1:2006. The sample was tested over combustion modified polyurethane foam with a density of approximately 35-36kg/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 he full potential fire hazard of the materials of products in use.

Results

	Specimen No.	
Smouldering criteria	1	2
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	No	No
smouldering		

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

Cigarette Test Result PASS







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BS EN 1021-2: 2006 – Source 1 – Butane Flame (Match)

The sample was tested in accordance with BS EN 1021-2:2006. The sample was tested over combustion modified polyurethane foam with a density of approximately 35-36kg/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 he full potential fire hazard of the materials of products in use.

	Specimen No.	
Smouldering criteria	1	2
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	No	No
progressive smouldering		

Flaming criteria	1	2
Unsafe escalating combustion	No	No
Testing assembly consumed	No	No
Flames to extremities/full thickness	No	No
Flames longer than 120 seconds	No	No
Specimen Result (Ignition or Non-ignition)	Non-Ignition	Non-Ignition

Any "Yes" in smouldering or flaming criteria means Ignition

Match Test Result PASS







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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)

The material received no pre-treatment as the fabric is stated not to be FR treated. The sample was conditioned and tested in the environments specified in Clause 10 of BS 5852:2006 (2011).

The material was tested in accordance with the above standard using Source 5 (Crib 5) and was tested over approximately 35-36 kg/m3 combustion modified polyurethane foam. The sample was tested at 22°C and 66% r.h.

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.

Results

	Specimen 1	Specimen 2
Time of Ignition (s)	41	43
Time of Flame Extinction (s)	261	241
Time of Smoke Extinction (s)	379	394
Time of cover split	DNS	DNO
Extent of damage (mm) - Seat		
Width	92	90
Length	77	75
Depth	46	38
Extent of damage (mm) - Back		
Width	91	88
Depth	32	31
Melting	No	No
Dripping	No	No
Charring	Yes	Yes
Comments and Observations	DNS	DNO
Specimen Result (Ignition or Non-ignition)	Non-Ignition	Non-Ignition

Acronyms

ME - Manually extinguished DNO – Did not observe time of event

EC - Escalating combustion

DNS - Material did not split

BTT – Burnt through thickness of foam DNI – Did not ignite







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Comment

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

Conclusion

The combination of materials meets BS 7176:2007 + A1:2011 for Medium Hazard.

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.

Where required to make a judgement to any pass/fail criteria an estimation of uncertainty of measurement has been taken into account. 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: ±2mm Timings: ±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.



