



# Confidential Report

**Our Ref: 23/57769-2**



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



Wira House, West Park Ring Road, Leeds, LS16 6QL, UK.  
Telephone: +44 (0) 113 259 1999  
Email: [info@bttg.co.uk](mailto:info@bttg.co.uk)  
Website: [www.bttg.co.uk](http://www.bttg.co.uk)

Date: 25 September 2020

Our Ref: 23/57769-2  
Your Ref: 23660

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Client: The Botany Weaving Mill Limited  
Vauxhall Avenue  
Cork Street  
Dublin  
D08 K752

Job Title: Fire Test on One Sample of Fabric

Client's Order No: 23660

Date of Receipt: 14 September 2020

Description of Sample(s): PO BW 23660, Batch 23447/1B, Spring 2020, stated to be 100% polyester

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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**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 did not have a flame retardant treatment therefore it was not subjected to a water soak pre-treatment

### 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: Botany Weaving Mill Ltd

### 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: Botany Weaving Mill Ltd**

**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>
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Any “Yes” in smouldering or flaming criteria means Ignition

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



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**Client: Botany Weaving Mill Ltd**

**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:-

	Specimen 1	Specimen 2
Time of Ignition (s)	5	6
Time of Flame Extinction (s)	220	200
Time of Smoke Extinction (s)	289	261
Time of cover split	10	10

**Extent of damage (mm) - Seat**

Width	97	96
Length	120	121
Depth	47	49

**Extent of damage (mm) - Back**

Width	420	420
Length	95	122
Depth	46	47

Melting	Yes	Yes
Dripping	Yes	Yes
Charring	Yes	Yes

Comments and Observations

[Click here to enter text.](#)

[Click here to enter text.](#)

**Specimen Result (Ignition or Non-ignition)**

**Non-Ignition**

**Non-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 "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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