



# Confidential Report

**Our Ref: 23/63206B3/05/25**





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

Date: 05 June 2025

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**Client:**

**Kvadrat A/S**

Lundbergsvej 10  
8400 Ebeltoft  
Denmark

**Job Title:**

Fire Test on One Fabric Sample

**Clients Order Ref:**

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**Date of Receipt:**

28 May 2025

**Date Test Started:**

04 June 2025

**Description of Sample:**

One sample of fabric, which was referenced by the client as;  
Firo, 80% new wool; worsted, 16% polyester, 4% nylon.

**Work Requested:**

We were asked to make the following fire test:

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

- \* 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 items tested.

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Client: Kvadrat A/S

**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 (Low 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 non-fire retardant polyurethane foam with a density of approximately 20-22kg/m<sup>3</sup>.



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Client: **Kvadrat A/S**

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

The sample was tested in accordance with BS EN 1021-1:2006.

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

Smouldering criteria	Specimen No.	
	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 smouldering	No	No

Flaming criteria	1	2
Occurrence of flames	No	No
<b>Specimen Result</b> (Ignition or Non-ignition)	<b>Non-Ignition (NI)</b>	<b>Non-Ignition (NI)</b>

Any “Yes” in smouldering or flaming criteria means Ignition

**Cigarette Test Result PASS**





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Client: **Kvadrat A/S**

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

The sample was tested in accordance with BS EN 1021-2:2006.

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

Smouldering criteria	Specimen No.	
	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 smouldering	No	No

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

Any "Yes" in smouldering or flaming criteria means Ignition

**Match Test Result PASS**



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## Conclusion

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

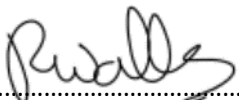
See BS 7176: 2007 + A1: 2011 Clause 6 for labelling and identification requirements. The test results relate only to the ignitability of the combination of upholstery composites under the particular conditions of test stated (BS EN 1021-1: 2006, BS EN 1021-2: 2006 and BS 5852: 2006 respectively); they 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 (<https://www.bttg.co.uk/about-us/decision-rules-policy/>) for further information.

## Uncertainty Budget

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

Reported by:  R Walls, Laboratory Technician

Countersigned by:  B Bland, Technical Customer Service Officer

Enquiries concerning this report should be addressed to Customer Services.



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