



Confidential Report

Our Ref: 23/64907/06/26





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

Date: 15 July 2026

Our Ref: 23/64907/06/26

Your Ref: ---

Page: 1 of 6

Client:

Kvadrar A/S

Lundbergsvej 10
8400 Ebeltoft
Denmark

Job Title:

Fire Test on One Fabric Sample

Clients Order Ref:

Date of Receipt:

30 June 2026

Date Test Started:

10 July 2026

Description of Sample:

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

Byram, 100% kids mohair, cotton base

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



1066

This report relates only to the items tested.
All tests were carried out in the laboratories in Leeds, unless otherwise indicated.

Shirley® Technologies Limited. Registered Office: Wira House, West Park Ring Road, Leeds, LS16 6QL.
A company registered in England & Wales with company number 04669651. VAT Number GB 816764800.
BTTG® and Shirley® are trade names of Shirley Technologies Ltd.
The supply of all goods and services is subject to our standard terms of business, copies of which are available on request.
Our laboratories are accredited to EN ISO/IEC 17025.

Copyright © 2026 Shirley Technologies Limited. All rights reserved.



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

Date: 15 July 2026

Our Ref: 23/64907/06/26
Your Ref: ---

Page: 2 of 6

Client: Kvadrar 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 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 34-36kg/m³.



1066

Shirley® Technologies Limited. Registered Office: Wira House, West Park Ring Road, Leeds, LS16 6QL.
A company registered in England & Wales with company number 04669651. VAT Number GB 816764800.
BTTG® and Shirley® are trade names of Shirley Technologies Ltd.
The supply of all goods and services is subject to our standard terms of business, copies of which are available on request.
Our laboratories are accredited to EN ISO/IEC 17025.

Copyright © 2026 Shirley Technologies Limited. All rights reserved.

Date: 15 July 2026

Our Ref: 23/64907/06/26
Your Ref: ---

Page: 3 of 6

Client: Kvadrar 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

	Specimen No.		
Smouldering criteria	1	2	3 ¹
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	3 ¹
Occurrence of flames	No	No	---
Specimen Result Ignition (I) / Non Ignition (NI)	NI	NI	---

Any “Yes” in smouldering or flaming criteria means Ignition

Cigarette Test Result PASS

Date: 15 July 2026

Our Ref: 23/64907/06/26
Your Ref: ---

Page: 4 of 6

Client: Kvadrar 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.

Any “Yes” in smouldering or flaming criteria means Ignition

	Specimen No.		
Smouldering criteria	1	2	3
Unsafe escalating combustion	No	No	No
Testing assembly consumed	No	No	No
Smoulders to extremities/full thickness	No	No	No
Smoulders more than 1 hour	No	No	No
In final examination, presence of progressive smouldering	No	No	No

Flaming criteria	1	2	3
Unsafe escalating combustion	No	No	No
Testing assembly consumed	No	No	No
Flames to extremities/full thickness	No	No	No
Flames longer than 120 seconds	No	No	No
Specimen Result			
Ignition (I) / Non Ignition (NI)	NI	NI	NI

Match Test Result **PASS**

Date: 15 July 2026

Our Ref: 23/64907/06/26
Your Ref: ---

Page: 5 of 6

Client: Kvadrar A/S

Testing BS 5852: Clause 11:2006 (2011) Assessment of the ignitability of upholstered seating by Smouldering and Flaming Sources – Source 5 (Crib 5)

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). The sample was tested at 25°C and 55% 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 (mins/secs)	0.12	0.09
Time of Flame Extinction (mins/secs)	4.10	3.40
Time of Smoke Extinction (mins/secs)	6.44	6.17
Time of cover split (mins/secs)	DNO	DNO
Extent of damage (mm) - Seat		
Width	108	102
Length	82	78
Depth	28	36
Extent of damage (mm) - Back		
Width	85	83
Depth	30	29
Melting	No	No
Dripping	No	No
Charring	Yes	Yes
Comments and Observations	DNO	DNO
Specimen Result (Ignition or Non-ignition)	Non-Ignition	Non-Ignition

Acronyms

ME – Manually extinguished

EC – Escalating combustion

DNS – Material did not split

DNO – Did not observe time of event

BTT – Burnt through thickness of foam

DNI – Did not ignite



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

Date: 15 July 2026

Our Ref: 23/64907/06/26
Your Ref: ---

Page: 6 of 6

Client: Kvadrar A/S

Comment

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

Conclusion

The combination of materials meet the requirements for BS 7176:2007 + A1:2011 for Medium Hazard.

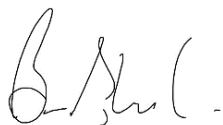
See BS 7176:2007 + A1:2011 Clause 6 for labelling and identification requirements. The test results relate only to the ignitability of the combination of upholstery composites under the particular conditions of test stated (BS EN 1021-1: 2006, BS EN 1021-2: 2006 and BS 5852: 2006 respectively); they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

Uncertainty Budget

Timings: ± 2 seconds.
Measurements: ± 2 mm.
Weight: ± 2 g.

Reported by:  B Bland, Technical Customer Service Officer

Countersigned by:  P. Doherty, Manager

Enquiries concerning this report should be addressed to Customer Services.

