BTTG

TESTING • CERTIFICATION • AUDITING

Confidential Report

Our Ref: 23/58509F/05/21

Date: 19 May 2021

Our Ref: 23/58509F/05/21
Your Ref: ---

Client: **Kvadrat A/S**

Lundbergsvej 10
8400 Ebeltoft
Denmark

Job Title: Fire Test on One Fabric Sample

Clients Order Ref: --

Date of Receipt: 04 May 2021

Date Test Started: 13 May 2021

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

Technicolour Fleck. Stated to be 100% new English wool, worsted

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

1066

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

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Page: 2 of 6

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 samples received no pretreatment as the fabric is stated to be inherently flame retardant.

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 Non FR polyurethane foam with a density of approximately 20-22kg/m^3.

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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 Non FR polyurethane foam with a density of approximately 20-22kg/m^3.

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.
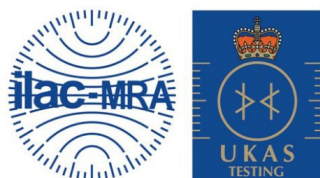
Results

	Specimen No.	
Smouldering criteria	**1**	**2**
Placement of Cigarette	**Flat**	**Flat**
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
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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Our Ref:	23/58509F/05/21
Your Ref:	---
Page:	4 of 6

Client: Kvadrat A/S
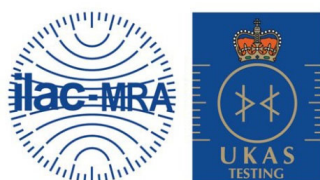
BS EN 1021-2: 2006 – Source 1 – Butane Flame (Match)

The sample was tested in accordance with BS EN 1021-2:2006. The sample was tested over Non FR polyurethane foam with a density of approximately 20-22kg/m^3.

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**
Placement of Butane Flame	**Flat**	**Flat**
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	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 (NI)**	**Non-Ignition (NI)**

Any "Yes" in smouldering or flaming criteria means Ignition

Match Test Result   **PASS**

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Page: 5 of 6

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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 Low Hazard.

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, Technical Customer Services Officer

Countersigned by:………………………………………………… P Doherty, Manager

Enquiries concerning this report should be addressed to Customer Services.

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Page: 6 of 6

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Uncertainty Budget - Annex

The overall uncertainty budget for both BS 7176:2007+A1:2011is as follows:-

Measurements: ±2mm
Timings: ±2 seconds.