

Confidential Report

Our Ref: 23/58400-1-2A



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



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Date: 15 April 2021

Our Ref: 23/58400-1-2A

Your Ref: ---

Page: 1 of 6

Client: Kvadrat A/S

Lundbergsvej 10 8400 Ebeltoft Denmark

Job Title: Fire Test on One Fabric Sample

Clients Order Ref: --

Date of Receipt: 29 March 2021

Date Test Started: 09 April 2021

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

Atrium Outdoor, stated to be 100% Trevira CS with water repellent finish

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

Note: This report relates only to the samples submitted and as described in the report.

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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 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 35-36kg/m³.





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Page: 3 of 6

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 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
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
Char >50mm from source	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	Non-Ignition

Any "Yes" in smouldering or flaming criteria means Ignition

Cigarette Test Result PASS





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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 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
Placement of Butane Flame	Flat	Flat
Unsafe escalating combustion	No	No
Testing assembly consumed	No	No
Smoulders through thickness	No	No
Smoulders more than 1 hour	No	No
Char >50mm from source	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
Burns through thickness	No	No
Flames longer than 120 seconds	No	No
In final examination, presence of	No	No
progressive smouldering		
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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Page: 5 of 6

Client: Kvadrat A/S

Conclusion

The combination of materials meets BS 7176: 2007 + A1:2011 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); 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+A1:2011 is as follows:-

Measurements: ±2mm
Timings: ±2 seconds.

