



TESTING • CERTIFICATION • AUDITING

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Date: 15 September 2020

Our Ref: 23/57725-4

Your Ref: -

Page: 1 of 3

Client: Kvadrat A/S  
Lundbergsvej 10  
8400 Ebeltoft  
Denmark

Job Title: Testing of the Ignitability of Upholstered Fabric

Client's Order No: -

Date of Receipt: 02 September 2020

Date of Test Start: 11 September 2020

Description of Sample(s): One sample of fabric identified as follows was received for testing:

Crystal Field, stated to be 38% new wool, 9% nylon, 53% cotton

Work Requested: We were asked to make the following test:

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



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## Kvadrat A/S

Sample was identified as follows:

Crystal Field, stated to be 38% new wool, 9% nylon, 53% cotton

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

### Pre-Treatment

This material received no pre-treatment as stated to be inherently flame retardant.

### Conditioning

The sample was conditioned and tested in the environments specified in Clause 10 of BS 5852: 2006 (2011).

### Testing

The material was tested according to BS 5852: 2006 (2011) Methods of test for the ignitability of upholstered composites for seating by flaming sources using Source 5 (Crib 5).

The sample was tested at 19°C and 53 % relative humidity (R.H.).

### Foam Used

The sample was tested over combustion modified polyurethane foam with a density of approximately 36 kg/m<sup>3</sup>.  
The results for all tests are given in the table(s) on the following page(s).

Uncertainty of measurement has not been taken into account when presenting the test result. The overall uncertainty budget for both BS 5852: Part 1: 1979 is as follows:

Measurements: ± 2 mm

Timings: ± 2 seconds

Reported by:.....  
B Bland

Laboratory Technician

Enquiries concerning this report should be addressed to Customer Services

Countersigned By:.....  
P Doherty

Manager



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## Kvadrat A/S

### RESULTS

Sample Ref: Crystal Field, stated to be 38% new wool, 9% nylon, 53% cotton

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.

	Specimen 1	Specimen 2
Time of Ignition (s)	27	14
Time of Flame Extinction (s)	299	267
Time of Smoke Extinction (s)	401	330
Time of cover split	261	206
<b>Extent of damage (mm) - Seat</b>		
Width	87	86
Length	149	135
Depth	35	30
<b>Extent of damage (mm) - Back</b>		
Width	325	340
Length	141	119
Depth	39	29
Melting	No	No
Dripping	No	No
Charring	Yes	Yes
Comments and Observations		
<b>Specimen Result (Ignition or Non-ignition)</b>	Non-Ignition	Non-Ignition

### Abbreviations

ME – Manually extinguished  
DNS – Material did not split  
BTT – Burnt through thickness of foam

EC – Escalating combustion  
DNO – Did not observe time of events  
BTE – Burnt to extremities

### Conclusion

The results indicate "Non-ignition" of the materials and the test is designated NI/5 i.e. Pass

Note: 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.



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