



TESTING • CERTIFICATION • AUDITING

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

Date: 15 September 2020

Our Ref: 23/57725-3
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:

Letters, stated to be 42% new wool, 8% nylon, 50% 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)



1066

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Sample was identified as follows:

Letters, stated to be 42% new wool, 8% nylon, 50% 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/m³.

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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RESULTS

Sample Ref: Letters, stated to be 42% new wool, 8% nylon, 50% 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)	11	17
Time of Flame Extinction (s)	414	434
Time of Smoke Extinction (s)	435	515
Time of cover split	153	DNO
Extent of damage (mm) - Seat		
Width	101	106
Length	139	140
Depth	37	39
Extent of damage (mm) - Back		
Width	420	420
Length	169	150
Depth	56	41
Melting	No	No
Dripping	No	No
Charring	Yes	Yes
Comments and Observations		DNO
Specimen Result (Ignition or Non-ignition)	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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