Wira House, West Park Ring Road,
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Email: info@bttg.co.uk
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Date: 23 July 2020

Our Ref: **23/57594-1**
Your Ref: -

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: 16 July 2020
Date of Test Start: 23 July 2020

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

Basel, stated to be 90% new wool, 10% nylon with Zirpro treatment

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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Sample was identified as follows:

Basel, stated to be 90% new wool, 10% nylon with Zirpro treatment

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
The material was subjected to the water soak procedure according to BS 5852: Annex E: 2006 (2011).

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 20°C and 58 % relative humidity (R.H.).

Foam Used
The sample was tested over combustion modified polyurethane foam with a density of approximately 36 kg/m^3.
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

Countersigned By:.....
P Doherty
Manager

Enquiries concerning this report should be addressed to Customer Services

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RESULTS

Sample Ref: Basel, stated to be 90% new wool, 10% nylon with Zirpro treatment

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)	9	13
Time of Flame Extinction (s)	233	249
Time of Smoke Extinction (s)	339	347
Time of cover split	DNO	DNO
Extent of damage (mm) - Seat		
Width	65	63
Length	99	95
Depth	21	20
Extent of damage (mm) - Back		
Width	361	390
Length	85	91
Depth	25	26
Melting	No	No
Dripping	No	No
Charring	Yes	Yes
Comments and Observations		
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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