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Date: 02 February 2018

Our Ref: 54565-3
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: 18 January 2018
Date of Test Start: 26 January 2018

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

Byram, stated to be 100% kids mohair, cotton base

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:

Byram, stated to be 100% kids mohair, cotton base

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 18 °C and 41 % 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:.....
J Coleman
Fire Technician

Countersigned By:.....
P Doherty
Operational Head

Enquiries concerning this report should be addressed to Customer Services.



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RESULTS

Sample Ref: Byram, stated to be 100% kids mohair, cotton base

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)	2	3
Time of Flame Extinction (s)	249	266
Time of Smoke Extinction (s)	355	324
Time of cover split	DNS	DNS
Extent of damage (mm) - Seat		
Width	75	75
Length	100	100
Depth	40	35
Extent of damage (mm) - Back		
Width	105	90
Length	280	280
Depth	30	35
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 event
BTE – Burnt to extremities

Conclusion

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

Uncertainty of measurement has not been taken into account when presenting the test result.