

Date: 20 October 2020

Our Ref: 23/57852-3
Your Ref: -

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Client: Essex Flameproofing T/A Euroflam
Unit G1 Hazleton Interchange Industrial Estate
Lakesmere Road
Hordndean
PO8 9JU

Job Title: Testing of the Ignitability of Upholstered Fabric

Client's Order No: -

Date of Receipt: 07 October 2020
Date of Test Start: 19 October 2020

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

Kobe, Barium FR, stated to be 100% polyester

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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TESTING • CERTIFICATION • AUDITING

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Essex Flameproofing T/A Euroflam

Sample was identified as follows:

Kobe, Barium FR, stated to be 100% polyester

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 50 % relative humidity (R.H.).

Foam Used

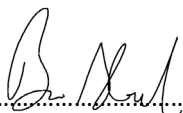
The sample was tested over combustion modified polyurethane foam with a density of approximately 36 kg/m³.

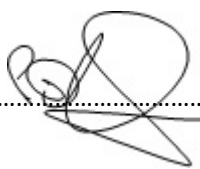
The results for all tests are given in the table(s) on the following page(s).

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

Countersigned By: 
P Doherty
Manager

Enquiries concerning this report should be addressed to Customer Services



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RESULTS

Sample Ref: Kobe, Barium FR, stated to be 100% polyester

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	22
Time of Flame Extinction (s)	322	240
Time of Smoke Extinction (s)	472	316
Time of cover split	DNO	DNS
Extent of damage (mm) - Seat		
Width	77	74
Length	94	90
Depth	30	21
Extent of damage (mm) - Back		
Width	276	247
Length	126	92
Depth	59	29
Melting	Yes	Yes
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

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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