



TESTING • CERTIFICATION • AUDITING

Confidential Report

Our Ref: 53103-1



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Notified Body
for PPE Directive,
Construction Products Regulation
& Marine Equipment Directive
I.D. No. 0338 & 0339



Wira House, West Park Ring Road, Leeds, LS16 6QL, UK.
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Email: info@bttg.co.uk
Website: www.bttg.co.uk

Date: 24 February 2017

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Your Ref: -

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Client: Kvadrat A/S
Lundbergsvej 10
8400 Ebeltoft
Denmark.

Job Title: Fire Test on One Sample of Fabric

Client's Order No: ---

Date of Receipt: 20 February 2017

Description of Sample(s): Molly 2, stated to be 100% new wool

Work Requested: We were asked to make the following test(s):
Schedule 4, Part 1 and Schedule 5, Part 1 of the Furniture and Furnishings (Fire Safety) Regulations

- * subcontracted test, UKAS accredited
- ** subcontracted test, EN ISO/IEC 17025 accredited
- *** not UKAS accredited



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Testing to Schedule 4, Part 1, "The Cigarette Test" and Schedule 5, Part 1, "The Match Test" of The Furniture and Furnishings (Fire) (Safety) Regulations 1988 S.I. No. 1324 (as amended by SI 1989 No. 2358, SI 1993 No. 207 & SI 2010 No. 2205), using BS 5852:Part 1:1979

Date of test: 24/2/2017

Pre-Treatment

The material was subjected to a water soak according to BS 5651:1978, as modified by the above regulation.

Conditioning

All materials used were conditioned in the environment specified in Clause 7 of BS 5852:Part 1:1979 "Methods of test for the ignitability by smokers materials of upholstered composites for seating."

Testing

The material was tested according to BS 5852:Part 1:1979 "Methods of test for the ignitability by smokers materials of upholstered composites for seating."

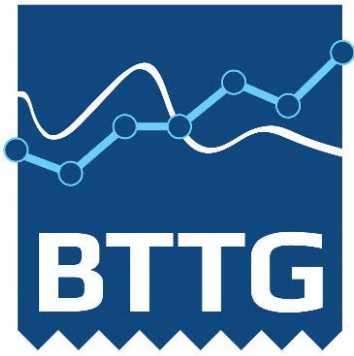
The results of BS 5852:Part 1:1979 relate only to the ignitability of the combination of materials under the particular conditions of test, they are not intended as a means of assessing the full potential fire hazard of the materials in use.



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Cigarette Test – Source 0

The sample was tested over non-fire retardant polyurethane foam with a density of 20-22Kg/m³.

The test results are shown in the tables below:-

Specimen No.	1	2
Time of Ignition (min)	--	--
Time of Flame Extinction (min)	36	30
Time to cover split (min)	DNS	DNS
Melting	No	No
Dripping	No	No
Charring	Yes	Yes
Progressive smouldering on final inspection	No	No

Requirements: No flaming or progressive smouldering within a period of 1 hour from placement of the cigarette.

Result of the Cigarette Test: PASS

Acronyms

DNP – Did not propagate
ME – Manually extinguished
DNS – Material did not split
DNI – Did Not Ignite

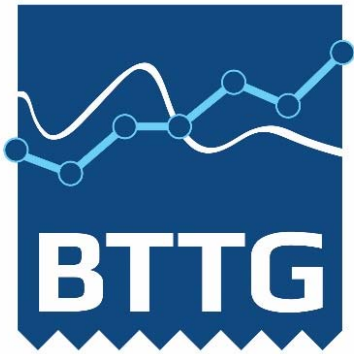
EC – Escalating combustion
ES – Escalating smouldering
DNO – Did not observe time of event



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Butane Flame Test – Source 1

The sample was tested over non-fire retardant polyurethane foam with a density of 20-22Kg/m³.

The test results are shown in the tables below:-

Specimen No.	1	2
Time of Ignition (secs.)	3	3
Time of Flame Extinction after Removal of Burner (secs.)	1	1
Time to cover split (secs.)	DNS	DNS
Melting	No	No
Dripping	No	No
Charring	Yes	Yes
Progressive smouldering on final inspection	No	No

Requirements: Duration of flaming from removal of source not greater than 120 seconds. Duration of smouldering from removal of source not greater than 15 mins.

Result of the Butane Flame Test: PASS

Acronyms

DNP – Did not propagate
ME – Manually extinguished
DNS – Material did not split
DNI – Did Not Ignite

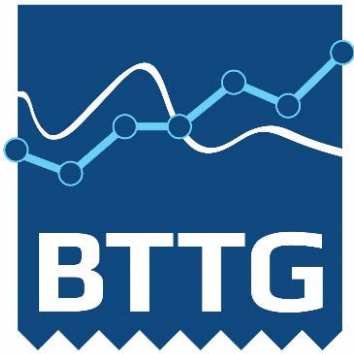
EC – Escalating combustion
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Conclusion

The sample meets the flammability requirements of Schedule 4, Part 1, "The Cigarette Test" of the Furniture and Furnishings (Fire) (Safety) Regulation 1988 (as amended) S.I. No. 1324.

The sample meets the flammability requirements of Schedule 5, Part 1, "The Match Test" of the Furniture and Furnishings (Fire) (Safety) Regulation 1988 (as amended) S.I. No. 1324.

Uncertainty of measurement has not been taken into account when presenting the test result. The relevant uncertainty value is included as an annex which forms an integral part of the report.

Reported By:.....
P Doherty
Operational Head



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Uncertainty Budget - Annex

The overall uncertainty budget for BS 5852:Part 1:1979 is as follows:-

Measurements:	±2mm
Timings:	±2 seconds.



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