



Confidential Report

Our Ref: 27/04583B/04/18



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



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Date: 10 May 2018
Our Ref: 27/04583B/04/18
Your Ref:
Page: 1 of 5

Client: Camira Fabrics Limited
Meltham Mills
Meltham
West Yorkshire
HD9 4AY

Job Title: Fire Test on One Sample of Fabric

Client's Order No: 64492

Date of Receipt: 20 April 2018

Description of Sample(s): One sample of fabric, referenced; Sprint / 376957 / Chase.

Work Requested: We were asked to make the following test(s):
BS 476 Part 7

Note: This report relates only to the samples submitted and as described in the report.

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



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Page: 2 of 5

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FIRE TESTS ACCORDING TO BS 476-7:1987 (Including amendments)

Fire tests on building materials and structures. Method of test to determine the classification of the surface spread of flame of products

Date of Test: 10/05/2018

Conditioning

The sample was conditioned to constant mass at a temperature of $23\pm 2^{\circ}\text{C}$ and a relative humidity of $50\pm 10\%$.

Procedure

The test was carried out in accordance with BS 476-7:1987. The sample was supplied by the sponsor of the test. Each specimen was tested fully adhered to a 12mm thick calcium silicate board, using PVA adhesive.

The following were recorded:-

- a) the time at which the flame front crosses each vertical reference line;
- b) the maximum extent of flame spread during the first 1.5 min from the start of the test;
- c) the maximum extent of flame spread during the whole test i.e. 10 min or less (if applicable)
- d) the time (and distance) at which maximum flame spread is reached.

The flame spread at 1.5min and the final flame spread results were compared with the standard class limits and a classification was assigned.



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Requirements

The class limits for flamespread, detailed in BS 476:Part 7: are set out below.

	Flame spread at 1.5 min (mm)	Final flame spread (mm)
Class 1	165 (+25)	165 (+25)
Class 2	215 (+25)	455 (+45)
Class 3	265 (+25)	710 (+75)
Class 4	Exceeding Class 3 limits.	

A definitive classification is based on a sample of six specimens and the figure in brackets gives the tolerance by which only one specimen in six may exceed the class limit assigned.

Results

The test results relate only to the behaviour of the test specimens of the product under the particular conditions of test; they are not intended to be the sole criterion for assessing the potential fire hazard of the product in use.

Time for flame spread to reach (s) (mm)								Flame spread at 1.5 min (mm)	Maximum flame spread (mm)	Time to reach maximum flame spread (s)
75	165	215	265	455	710	785	825			
69	--	--	--	--	--	--	--	100	100	145
--	--	--	--	--	--	--	--	60	60	61
67	--	--	--	--	--	--	--	75	75	80
--	--	--	--	--	--	--	--	60	60	61
--	--	--	--	--	--	--	--	60	60	61
--	--	--	--	--	--	--	--	60	60	61

Observations

Fabric melted to board, leaving fingers of melted fabric to the board.



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Page: 4 of 5

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Classification

The results indicate the sample meets the performance requirements of Class 1Y.

A suffix Y is added to the classification if any softening and/or any other behaviour that may affect the flame spread occurs. The Y suffix was added to this classification due to specimen softening and slumping within the holder after the initial first minute of testing.

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:..... *B Marsden* B Marsden (Mrs), Fire Technician

Countersigned by:..... *[Signature]* P Doherty, Operational Head

Enquiries concerning this report should be addressed to Customer Services.



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Uncertainty Budget - Annex

The overall uncertainty budget for BS 476-7:1987 is as follows:-

BS 476-7:1987

Overall: $\pm 20\%$



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