



TEST REPORT

Client: Gabriel
Hjulgagervej 55
Postbox 59
DK-9100 Aalborg
Denmark

Entry No: 93342

Date received: 13/12/2017

Client's Description: Sample of fabric: Twist 60004 Grey

Test Required: Fire tests according to BS 476: Part 7:1987 (As Amended)
(Method for classification of the surface spread of flame of products)^s

Conditioning: The sample was conditioned to constant mass at a temperature at 23+2°C and a relative humidity of 50+/-10% and maintained in this condition until required for testing

Date Tests Completed: 12/01/2018

Procedure

The test was carried out in accordance with BS 476: Part 7: 1987 (1993)^s. 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:-

- The time at which the flame front crosses each vertical reference line;
- The maximum extent of flame spread during the first 1.5 min from the start of the test;
- The maximum extent of flame spread during the whole test i.e. 10 min or less (if applicable);
- 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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This is hereby certified to be a correct return of the tests made of the items referred to herein



Dale Brockbank
Materials Testing Manager
22 January 2018

- ❖ Unless instructed otherwise by the client sample remnants will be disposed of after 28 days.
- ❖ Tests marked ^s in this certificate have been subcontracted to another ISO17025 Accredited Laboratory.
- ❖ Uncertainty budgets for test methods contained within this report are available on request.

This Certificate relates only to the sample received and, unless that sample has been drawn by the staff of this laboratory, or its agent, and endorsed accordingly, any application of the result to a bulk quantity or other material is entirely the responsibility of the client.



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Requirements

The class limits for flame spread, detailed in BS 476: Part 7: 1987 (1993)^S are set out below

	Flame Spread at 1.5min (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)
165	215	265	455	710			
---	---	---	---	---	60	60	61
---	---	---	---	---	<50	<50	61
---	---	---	---	---	<50	<50	61
---	---	---	---	---	<50	<50	61
---	---	---	---	---	<50	<50	62
---	---	---	---	---	<50	<50	62

Observation

Specimen 1 the gap opened at 58 seconds, while the fabric melted to the board.
Specimen 2, 3, 4, 5 & 6 melted to the board after 60 seconds.

Classification

The results indicate that the sample met the performance requirements of Class 1Y. 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 in to account when presenting the test result. The overall uncertainty budget for BS 476: Part 7: 1987 (1993)^S is +/-20%.

Subcontracted test made by a UKAS Accredited Laboratory

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