



TEST REPORT

Client:	Gabriel Hjulgagervej 55 Postbox 59 DK-9100 Aalborg Denmark
Entry No:	80459
Date received:	10/11/2016
Client's Description:	Sample of fabric: Medley 60003 Light 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:	24/11/2016

Procedure

The test was carried out in accordance with BS 476: Part 7: 1987 (1993). The sponsor sampled the material and the specimens were cut from the sample to the dimensions set out in the standard. The Specimens were adhered to a 12mm 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
25 November 2016

- ❖ 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: are set 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			
---	---	---	---	---	75	750	66
---	---	---	---	---	60	60	65
100	---	---	---	---	120	180	127
90	130	---	---	---	165	225	150
---	---	---	---	---	120	140	70
---	---	---	---	---	60	60	62

The results indicate that the sample met the performance requirements of class 2 Y.

Note: 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 the specimen softening and slumping within the holder after the initial first minute of testing.

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Comments

During the testing the following was observed:

- Specimen 1 & 2 - a hole formed at 60 seconds causing the material to melt to the board leaving gaps.
- Specimen 3 - a hole formed at 55 seconds causing the sample to burn along the reference line leaving melted material stuck to the calcium silicate board.
- Specimen 4 - a hole formed at 50 seconds causing the sample to burn along the reference line which caused the material to melt to the backing board leaving slight gaps.
- Specimen 5 - a hole formed slightly at 45 seconds but the sample to burnt along the reference line to approximately 120mm.
- Specimen 6 - a slight hole formed at 60 seconds but the material melted ton the board in the form of melted drip with slight gaps.

Uncertainly of measurement has not been taken in to account when making a judgement to any pass / fail criteria. The overall uncertainty budget for BS476 Part 7: 1987 is +/-20%.

Subcontracted test made by a UKAS Accredited Laboratory

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