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Report no. A598951-3
Page 1 of 2
Date 29 April 2014
Initials ldkr/leln/ac

Test Report

Material: Combination of materials tested:

Cover: Sample of woven upholstery fabric,
designated: Sonar 1/2
Fibre composition: 59% new wool, 25% viscose, 9% flax, 5% polyamide,
2% polyester
Approximate mass per area unit: 478 g/m²

Filling: Non flame-retardant polyurethane foam designated, E22120.
Approximate density: 22 kg/m³. The foam is delivered from the Institute.

Sampling: The cover material was submitted by the assignor and received on Danish Technological Institute 10 April 2014.

Method: Testing of ignitability according to the Cigarette Test specified in Part I of Schedule 4 of the Furniture and Furnishings (Fire)(Safety) Regulations 1988 (amended 1989/1993), (Great Britain).

Ignition source: Smouldering cigarette

Details of the test are given on page 2.

Period: The testing was completed 24 April 2014.

Results: The upholstery fabric under test **meets (PASSES)** the requirements specified in Schedule 4, Part I and Regulation 8 of the Furniture and Furnishings (Fire)(Safety) Regulations 1988, amended 1989/1993, (GB).

Terms: The test has been performed according to the rear side conditions, which are according to the guidelines laid down by DANAK (The Danish Accreditation). The testing is only valid for the tested specimen. The test report may only be extracted, if the laboratory has approved the extract.

29 April 2014, Danish Technological Institute, Textile


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Signatory


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Counter-signatory

Material under test: Combination of materials tested:

Cover: Sample of woven upholstery fabric,
designated: Sonar 1/2

Fibre composition: 59% new wool, 25% viscose, 9% flax, 5% polyamide,
2% polyester

Approximate mass per area unit: 478 g/m²

Filling: Non flame-retardant polyurethane foam designated, E22120.

Approximate density: 22 kg/m³. The foam is delivered from the Institute.

Conditioning at least 72 h in indoor ambient and at least 16 h before testing at
following atmosphere: Temperature: (20±5) °C ; Humidity: (50±20) %RH

Results, continued: The test results 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.

The samples were tested in accordance to Schedule 4, Part I of the Furniture
and Furnishings (Fire) (Safety) Regulations 1988 (amended 1989/1993),
(Great Britain).

Test method BS 5852:Part1:1979 – Fire test for Furniture:

Ignition source: Smouldering cigarette

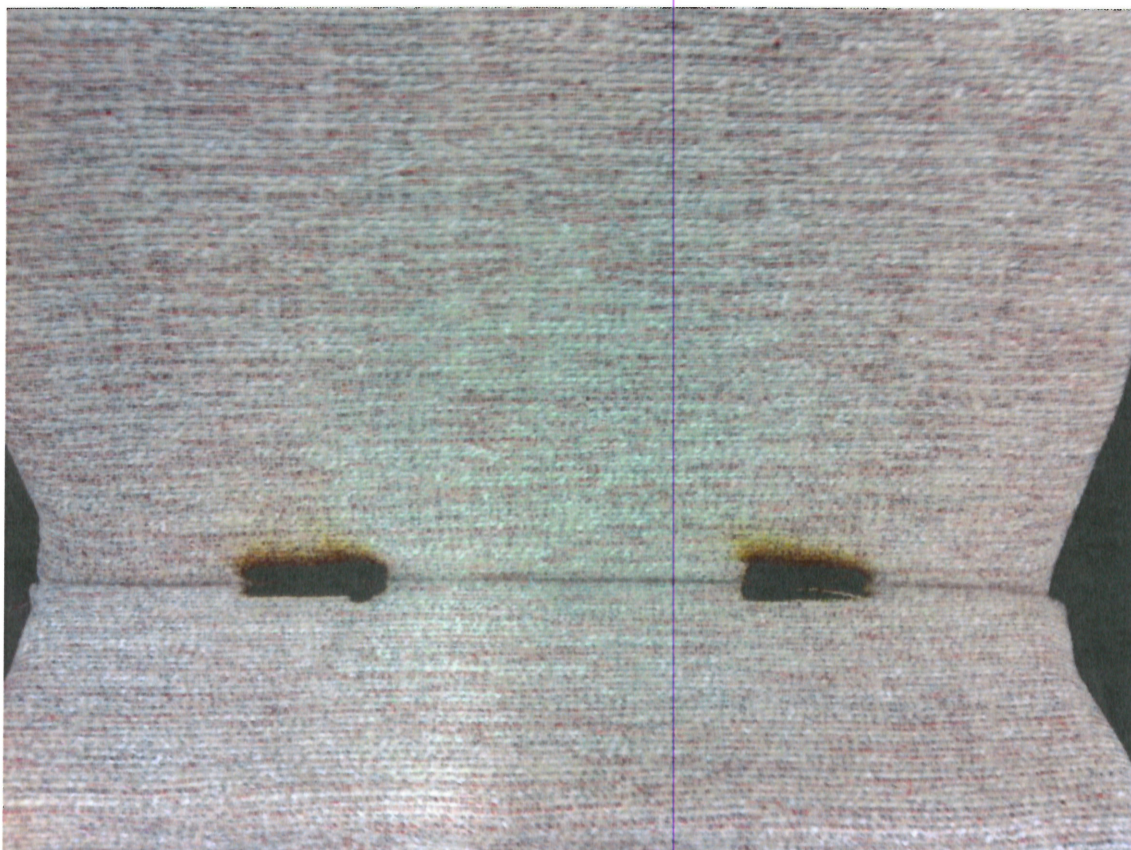
Requirements: No observation of progressive flaming or smouldering within the 60 minutes
of the placement of the cigarette.

Test results: **Non-ignition > PASSES**

| Observations during test: | Source 0 | | Comments |
|-------------------------------|----------|---------|------------|
| | 1 | 2 | |
| The flaming ceased within | - | - | No flaming |
| All smouldering ceased within | 30 min. | 27 min. | |
| Melting | No | No | |
| Dripping | No | No | |
| Charring | Yes | Yes | |
| Other phenomena | - | - | |

Comments: Before testing the sample was not subjected to the water soaking and drying
procedure as prescribed in Schedule 5, Part I of the Furniture and Furnishings
(Fire)(Safety) Regulations 1988 (amended 1989/1993), (Great Britain).

Photos:





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Test Report

Material: Combination of materials tested:
Cover: Sample of woven upholstery fabric, designated: Sonar 1/2 by Maharam
Fibre composition: 59% New wool, 25% Viscose, 9% Flax, 5% Polyamide, 2% Polyester
Approximate mass per area unit: 478 g/m²
Filling: Non flame-retardant polyurethane foam designated: E22120.
Approximate density: 22 kg/m³.
The foam is delivered from the Institute

Sampling: The cover material was submitted by the assignor and received on Danish Technological Institute 10 April 2014.

Method: Testing of ignitability according to the Match Test specified in Part I of Schedule 5 of the Furniture and Furnishings (Fire)(Safety) Regulations 1988 (amended 1989/1993), (Great Britain).
Ignition source: Match flame equivalent.
Details of the test are given on page 2.

Period: The testing was completed 28 April 2013.


Results: The upholstery fabric under test **do meet (PASSES)** the requirements specified in Schedule 5, Part I and Regulation 88 of the Furniture and Furnishings (Fire)(Safety) Regulations 1988, amended 1989/1993, (GB).

Terms: The test has been performed according to the rear side conditions, which are according to the guidelines laid down by DANAK (The Danish Accreditation). The testing is only valid for the tested specimen. The test report may only be extracted, if the laboratory has approved the extract.

29 April 2014, Danish Technological Institute, Textile


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Counter-signatory

Material under test: Combination of materials tested:

Combination of materials tested:

Cover: Sample of woven upholstery fabric, designated: Sonar 1/2 by Maharam

Fibre composition: 59% new wool, 25% viscose, 9% flax, 5% polyamide, 2% polyester

Approximate mass per area unit: 478 g/m²

Filling: Non flame-retardant polyurethane foam designated: E22120.

Approximate density: 22 kg/m³.

The foam is delivered from the Institute

Conditioning at least 72 h in indoor ambient and at least 16 h before testing at following atmosphere: Temperature: (20±5) °C Humidity: (50±20) %RH

Test Method: BS 5852: Part 1:1979 using the specified filling of non-fire retardant polyurethane foam of density approx. 22 kg/m³, designated, E22120 and match flame equivalent (butane flame) ignition source 1 as specified in Schedule 5, Part I of the Furniture and Furnishings (Fire)(Safety) Regulations 1988 (amended 1989/1993), (Great Britain).

Results, continued: The following test results 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.

Requirement: All progressive smouldering and flaming to cease within 120 seconds after removal of the ignition source. In the case of flaming or progressive smouldering of the upholstery components record a failed result.

Test result: **No ignition (PASSES)**

In relation to progressive smouldering for ignition source 1, it has been clarified by the British Standards Institution Committee responsible for the development of BS 5852: Part 1:1979 (CCM/44) that it is necessary to observe test specimens for a period of 15 minutes from removal and the gas flame in order to determine whether or not the specimen is smouldering progressively.

| Observations during test: | Source 1 | | Comments |
|-------------------------------|----------|--------|----------|
| | 1 | 2 | |
| The flaming ceased within | 3 sec. | 2 sec. | |
| All smouldering ceased within | 3 sec. | 2 sec. | |
| Melting | No | No | |
| Dripping | No | No | |
| Charring | Yes | Yes | |
| Other phenomena | - | - | |

Comments: Before testing the sample was not subjected to the water soaking and drying procedure as prescribed in Schedule 5, Part I of the Furniture and Furnishings (Fire)(Safety) Regulations 1988 (amended 1989/1993), (Great Britain).

Photo:

