

Test Report

Report No.: A814344-1



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Subject: Combination of upholstered material tested:
Cover: Sample of fabric, designated: Divina, Divina MD, Divina Melange (as per info from the assigner).
Fibre composition: 100% New wool, (as per info from the assigner).
Approximate mass per area unit: 555 g/m².

Filling: Flame-retardant polyurethane foam designated, CME 38165.
Approximate density: 35 kg/m³. (The foam is delivered by Danish Technological Institute).

Sampling: The test material was sampled by the client and received at the Danish Technological Institute 22 May 2018.

Method: BS 5852:2006 – Method of test for: Assessment of the ignitability of upholstered seating by smouldering and flaming ignition sources. Method of test for the ignitability of upholstery composites.
Ignition source: Crib 5. Weight 17±1 g.

Period: The testing was completed 25 May 2018.

Result: Upholstery composite under test **meets (PASSES)** the requirements specified in BS 5852:2006, source 5, clause 4.

Details of the test are given on page 2 of this report.

Storage: The test material will be destroyed after 3 months, unless otherwise agreed.

Terms: The accredited test was carried out according to DANAK's general conditions see www.danak.dk and according to the General Terms and Conditions regarding Commissioned Work Accepted by the Danish Technological Institute, which apply at the time of signing the agreement. The test is only valid for the tested specimen. The test report may only be extracted, if the laboratory has approved the extract.

Date/place: 28 May 2018, Danish Technological Institute, Textile, Taastrup

Signature: Test responsible

Co-signatory



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**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.

Test result: Non-ignition > PASS

	Test 1	Test 2
Duration of flames in min.	5:15 minutes	5:11 minutes
Smouldering ceased within 60 minutes	Yes	Yes
Damage in the horizontal (seat) component:		
- length in mm	15	18
- width in mm	23	25
- thickness in mm	33	30
Damage in the vertical (back) component:		
- width in mm	55	43
- thickness in mm	60	57

Comments:

Before testing the sample was **not** subjected to the water soaking and drying procedure described in BS 5852:2006, Annex E.

Requirements:

Criteria given in BS 5852:1982

- Progressive smouldering failure, clause 4.1.a, c, e and f are regarding crib 5
- a. Escalating combustion behaviour so that it is unsafe to continue the test and requires forcible extinction.
 - c. Smouldering until the specimen is essentially consumed or to the extremities of the specimen that is either the sides or to its full thickness, within the test duration (60 minutes).
 - e. Production of externally detectable amounts of smoke, heat or glowing 60 minutes after ignition of the crib.
 - f. On final examination: Evidence of charring other than discolouration, more than 100 mm in any direction, apart from upwards, from the nearest part of the original position of the source.

Flaming failure, clause 4.2.a, b, c, e and g are regarding crib 5

- a. Escalating combustion flaming behaviour so that it is unsafe to continue the test and requires forcible extinction.
- b. Burning until the specimen is essentially consumed within the test duration
- c. Flame front reaches either the sides or passes through the full thickness of the specimen within the duration of the test.
- e. Flaming for more than 10 minutes after ignition of the crib.
- g. Flaming debris causing an isolated floor fire that continues to flame longer than 10 minutes.

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