

Test Report

Report No.: A 918894-1



**DANISH
TECHNOLOGICAL
INSTITUTE**

Gregersensvej
DK-2630 Taastrup
Tel. +45 72 20 20 00
Fax +45 72 20 20 19

info@teknologisk.dk
www.teknologisk.dk

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Assignor: Kvadrat A/S
Lundbergsvej 10
8400 Ebeltøft

Subject: Combination of upholstered material tested:
Cover: Sample of fabric, designated: Relate. (as per info from the assigner).
Fibre composition: 100% Trevira CS (as per info from the assigner).
Approximate mass per area unit: 317 g/m².
Filling: Flame-retardant polyurethane foam designated, CME38165.
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 03 March 2020.

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 06 March 2020.

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: 09 March 2020, 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.	3:41 min.	4:00 min.
Smouldering ceased within 60 minutes	Yes	Yes
Damage in the horizontal (seat) component:		
- length in mm	17	35
- width in mm	33	40
- thickness in mm	39	70
Damage in the vertical (back) component:		
- width in mm	30	20
- thickness in mm	43	48

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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