Test Report

Report No.: A 844462-1

DANISH TECHNOLOGICAL INSTITUTE

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Subject: Combination of upholstered material tested:
Cover material: 100% Trevira CS, water repellent finish, designated Patio (as per info from the assigner). Weight: approximately 368 g/m2.
Filling material: CMHR foam, Designated: CME 38165, Approx. density 34 kg/m^3 (Foam was delivered by the institute)

Sampling: The test material was sampled by the client and received at the Danish Technological Institute 26 November 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 30 November 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: Accredited testing was carried out in compliance with international requirements (EN/ISO/IEC 17025:2005) and in compliance with Danish Technological Institute's General Terms and Conditions regarding Commissioned Work accepted by Danish Technological Institute. The test results apply to the tested products only. This report may be quoted in extract only if the laboratory has granted its written consent.

Date/place: 3 December 2018, Danish Technological Institute, Textile, Taastrup

Signature:

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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.	3:37	4:56
Smouldering ceased within 60 minutes	Yes	Yes
Damage in the horizontal (seat) component:		
- length in mm	48	67
- width in mm	39	60
- thickness in mm	38	51
Damage in the vertical (back) component:		
- width in mm	47	48
- thickness in mm	56	65

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 5852:2006

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.