

# Test report

Report no.:  
A740254-1



**DANISH  
TECHNOLOGICAL  
INSTITUTE**

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**Assigner:** Contact person: Lone Henriksen  
Company: Kvadrat A/S  
Address: Lundbergsvej 10  
City: DK-8400 Ebeltoft

**Material tested:** Combination of upholstered material tested:  
**Cover:** Sample of fabric, designated: Foss(as per info from the assigner).  
Fibre composition: 76% New wool worsted, 11 % viscose, 8 % nylon, 5% flax (as per info from the assigner).  
Approximate mass per area unit: 352 g/m<sup>2</sup>

**Filling:** Polyurethane foam, specified in TB 117-2013 Annex B.  
Density 28,0 - 29,6 kg/m<sup>3</sup>.  
(Foam was submitted by Danish Technological Institute).

**Sampling:** The material for testing was submitted by the assigner and received on Danish Technological Institute 20 January 2017.

**Period:** The testing was completed 24 January 2017.

**Test method:** California Bureau of Home Furnishings and Thermal Insulation Technical Bulletin 117-2013. Section 1. Cover fabric test.

**Results:** The cover fabric under test **meets ( PASSES )** the requirements to flammability of cover fabrics specified in Technical Bulletin 117-2013, Section 1 from Bureau of Home Furnishings and Thermal Insulation, State of California, USA.

Details of the tests are given on pages 2 of this report.

**Storage:** The tested material will be stored for 3 months after completion of the test unless longer is pre-agreed in writing.

**Terms:** The test has been performed according to the conditions laid down by DANAK (The Danish Accreditation), cf. [www.danak.dk](http://www.danak.dk), and the general terms and conditions of The Danish Technological Institute. The results from DTI's work in this report, i.e. analyses, assessments and instructions may only be used or reported in their entirety. The customer may not mention or refer to DTI or DTI's employees for advertising or marketing purposes unless the DTI has granted its written consent in each case."

**Place:** 26 January 2017, Danish Technological Institute, Taastrup, Textile

**Signature:**

[Signature area]

Signatory

Counter-signatory



 **DANAK**  
Test Reg. nr. 2



**Results,  
continued:**

Testing according to Technical Bulletin 117-2013, Section 1

Smouldering test (cigarette test) for cover fabric materials in combination with standard polyurethane foam, specified in TB 117-2013 Annex B. Test materials were conditioned at  $21 \pm 2$  °C ( $70 \pm 5$  °F) and less than 55 % RH. A fresh cigarette must be placed on new a test assembly, until either three cigarettes have burned their entire length on three individual test specimens, or three cigarettes have self-extinguished on the specimen.

Three determinations were carried out.

	Test 1	Test 2	Test 3
Smouldering after 45 minutes	No	No	No
Vertical char length in inches	0,74 (19 mm)	0,67 (17 mm)	0,67 (17 mm)
Cigarette burned entire length	Yes	Yes	Yes
Occurrence of flames	No	No	No
Comments			

**Requirements:**

A material is considered to pass or fail based on the following criteria according to Technical Bulletin 117-2013, Section 1, item 3.4:

1.	A single mock-up test specimen fails to meets the requirements of this test procedure if any of the following criteria occurs: a) The mock-up test specimen continues to smoulder after 45 minutes test duration. b) A vertical char length of more than 1,8 inches (45 mm) develops on the cover fabric. c) The mock-up test specimen transitions to open flame.
2.	The cover fabric passes the test if three initial mock-up specimens pass the test, i.e., the cigarettes burn full length and the mock-ups are no longer smouldering.
3.	If more than one initial specimen fails, the cover fabric fails the test.
4.	If any of the three initial specimen fails, repeat the test on additional three specimens.
5.	If all three additional specimens pass the test, the cover fabric passes the test. If any one of the additional three specimens fails, the cover fabric fails the test.

The cover material under test **meets (PASSES)** these requirements.



**Photo:**

