

# Test Report

Report Number:  
224087-5-CTB



**DANISH  
TECHNOLOGICAL  
INSTITUTE**

Gregersensvej 1  
DK-2630 Taastrup  
+45 72 20 20 00  
info@teknologisk.dk  
www.teknologisk.dk

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Init.: CHF/LELN  
Order no.: 224087  
Encl.: 2

**Assignor:** KVADRAT A/S, Lundbergsvej 10, DK-8400 Ebeltoft

**Item:** Sample of upholstery fabric designated: Serpentine, 0678  
Detailed information is given in enclosure A.

**Sampling:** The assignor confirms having selected the product. The product was forwarded by the assignor and received at Danish Technological Institute on 8 November 2023.

**Period:** The test took place from 14 November 2023 to 21 November 2023.

**Method:** Technical Bulletin 117:2013, Requirements, Test Procedure and Apparatus for Testing the Smolder Resistance of Materials Used in Upholstered Furniture

**Test results:** The cover fabric under test **meets (PASSES)** the requirements to flammability specified in Technical Bulletin 117-2013, Section 1 from Bureau of Household Goods and Services, State of California, USA.  
The results are shown in enclosure A.

**Terms:** This test was conducted accredited in accordance with international requirements (ISO/IEC 17025:2017) and in accordance with the General Terms and Conditions of Danish Technological Institute. The test results solely apply to the tested item. This test report may be quoted in extract only if Danish Technological Institute has granted its written consent.

**Place:** Danish Technological Institute, Taastrup, Environmental Technology

**Signature:** This document is only valid with a digital signature from Danish Technological Institute. The date of issue appears from the digital signature.  
Charlotte Fischer  
Senior Consultant



**DANAK**  
TEST Reg.no. 2



## Materials

Item: Sample of upholstery fabric designated: Serpentine, 0678

Combination of upholstery materials tested:

Cover: Serpentine, 0678

Fiber content: 98% new wool, 2% nylon

Approximate mass per area: 609 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 provided by the test laboratory.)

## Results

Test method: Technical Bulletin 117:2013. Section 1: cover fabric test.

Ignition source: Smoldering cigarette

Conditioning: 21±2 °C (70±5 °F) / < 55 % RH

**Test result:** The cover fabric under test **meets (PASSES)** the requirements in Technical Bulletin TB-117 Section 1 (see below).

	Test 1	Test 2	Test 3
Smoldering after 45 minutes	No	No	No
Vertical char length in inches	0.47 (12 mm)	0.47 (12 mm)	0.47 (12 mm)
Cigarette burned entire length	Yes	Yes	Yes
Occurrence of flames	No	No	No

**Requirements:** A material is considered to pass or fail based based on the following criteria according to Technical Bulletin 117-2013, Section 1, item 1.4:

1. A single mock-up test specimen fails to meet 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.
3. If more than one initial specimen fails, the cover fabric fails the test.
4. If any one of the three initial specimens 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.



## Photos

Item: Sample of upholstery fabric designated: Serpentine, 0678

