

Test Report

Report Number:
159664-5-PMI



**DANISH
TECHNOLOGICAL
INSTITUTE**

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Init.: CHF/LELN
Order no.: 159664
Encl.: 2

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

Item: Sample of upholstery fabric designated: B108 by Sahco, colour 0005
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 14 October 2022.

Period: The test took place from 24 October 2022 to 26 October 2022.

Method: BS 5852:2006 Methods of test for assessment of the ignitability of upholstered seating by smoldering and flaming ignitions sources. Sources 1,2 and 3 (flame) and sources 4,5,6 og 7 (wooden crib)

Test results: According to the criteria of ignition described in BS 5852:2006, source 5, clause 4, the result is:
Non-ignition > PASSES
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



DIGITALLY SIGNED DOCUMENT

27 October 2022

DANISH TECHNOLOGICAL INSTITUTE



DANAK

TEST Reg.no. 2



Materials

Item: Sample of upholstery fabric designated: B108 by Sahco, colour 0005

Combination of upholstered material tested:

Cover:

Designated: B108 by Sahco, colour 0005

Fibre content: 100% Mohair (nap)

Approximate mass per area: 592 g/m²

Filling: Flame-retardant CMHR foam designated: CMHR 3538/RG35150.

Approximate density: 35 kg/m³

(Foam was provided by the test laboratory.)

Results

Test method: BS 5852:2006

Ignition source: Crib 5. Weight 17±1 g.

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

Conditioning atmosphere: 23±2 °C / 50±5 % RH

Test result: Non-ignition > PASSES

	Test 1	Test 2
Duration of flames [min:sec]	04:13	04:28
Smouldering ceased within 60 minutes	Yes	Yes
Damage in the horizontal (seat) component:		
Length [mm]	35	40
Width [mm]	30	33
Thickness [mm]	35	31
Damage in the vertical (back) component:		
Width [mm]	33	25
Thickness [mm]	27	25

The above 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.



Criteria for failure

According to BS 5852:2006 Clause 4.1.1 all of the following behaviours shall be deemed to be progressive smouldering ignition (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.

According to Clause 4.2.1 all of the following behaviours shall be deemed to be flaming ignition (regarding crib 5):

- a. Escalating flaming combustion behaviour so that it is unsafe to continue the test and forcible extinction if required.
- 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.

Photos

Test of: Sample of upholstery fabric designated: B108 by Sahco, colour 0005

