

Test Report

Report No.: A 903546-1



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Initials Chf/leln
Order no.: 903546
No. of appendix: 1

Assignor: Kvadrat A/S
Attn.: Lone Henriksen
Lundbergsvej 10
8400 Ebeltoft

Subject: Combination of upholstered material tested:
Cover: Sample of woven upholstery fabric, designated: Tonus/Tonus Meadow.
Fibre composition: 90% new wool, 10% nylon (as per info from the assigner).
Approximate mass per area unit: 495 g/m².
Filling: Non flame-retardant polyurethane foam designated, E22120.
Approximate density: 22 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 29 November 2019.

Method: Testing of ignitability according to EN 1021-1:2014, Furniture - Assessment of ignitability of upholstered furniture - Part 1: Ignition source smouldering cigarette.

Details of the test are given on page 2 in this report.

Period: The testing was completed 4 December 2019.

Result: According to the criteria of ignition described in EN 1021-1, chapter 3, the result is:

Non-Ignition > PASS

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: 6 December 2019, Danish Technological Institute, Textile, Taastrup

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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 method: EN 1021-1:2014.

Ignition source: Smouldering cigarette.

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

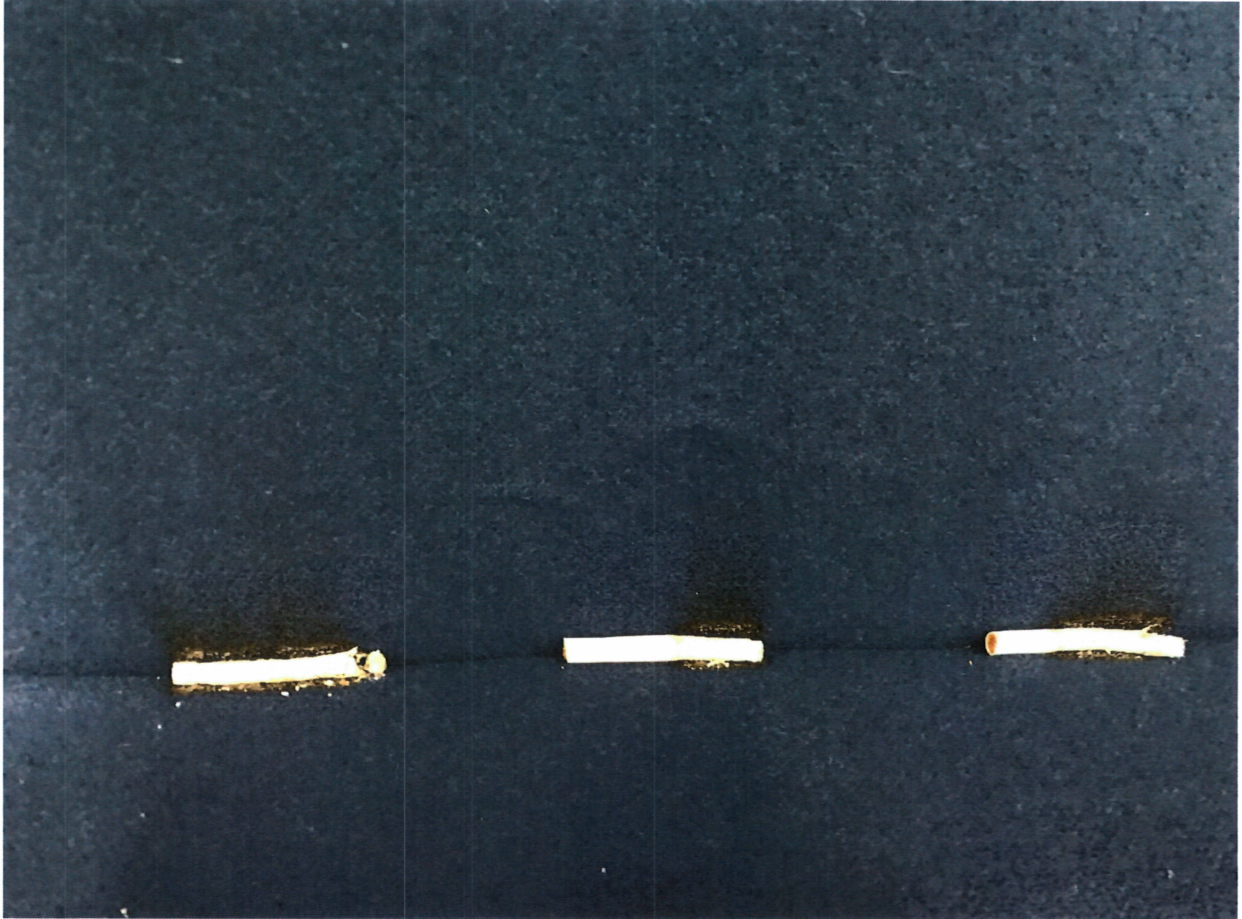
Test result: Non-Ignition > PASS

Smouldering criteria	Cigarette		
	Test 1	Test 2	Test 3
Unsafe escalating combustion (3.1.a)	No	No	No
Test assembly largely consumed (3.1.b)	No	No	No
Smoulders to extremities (3.1.c)	No	No	No
Smoulders through thickness (3.1.c)	No	No	No
Smoulders more than 1 hour (3.1.d)			
Progressive smouldering on final examination (3.1.e)	No	No	No
Flaming criteria			
Any flames initiated by smouldering source (3.2)	No	No	No
Self-extinguishing of the cigarettes before smouldering entire length	Yes	Yes	No

Comments:

Before testing the sample was **not** subjected to the water soaking and drying procedure described in EN 1021-1, annex D.

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Test Report

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Assignor: Kvadrat A/S
Attn.: Lone Henriksen
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8400 Ebeltoft

Subject: Combination of upholstered material tested:
Cover: Sample of woven upholstery fabric, designated: Tonus/Tonus Meadow.
Fibre composition: 90% new wool, 10% nylon (as per info from the assigner).
Approximate mass per area unit: 495 g/m².
Filling: Non flame-retardant polyurethane foam designated, E22120.
Approximate density: 22 kg/m³. (The foam is delivered by Danish Technological Institute)

Sampling: The material for testing was submitted by the assigner and received on Danish Technological Institute 29 November 2019.

Method: Testing of ignitability according to EN 1021-2:2014, Furniture - Assessment of ignitability of upholstered furniture - Part 2: Ignition source match flame equivalent.

Details of the test are given on page 2 in this report.

Period: The testing was completed 4 December 2019.

Result: According to the criteria of ignition described in EN 1021-2, chapter 3, the result is:

Non-ignition > PASS

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: 6 December 2019, Danish Technological Institute, Textile, Taastrup

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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 method: EN 1021-2:2014.

Ignition source: Match flame equivalent.

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

Test result: Non-ignition > PASS

Smouldering criteria	Match Flame equivalent		
	Test 1	Test 2	Test 3
Unsafe escalating combustion (3.1.a)	No	No	No
Test assembly largely consumed (3.1.b)	No	No	No
Smoulders to extremities (3.1.c)	No	No	No
Smoulders through thickness (3.1.c)	No	No	No
Smoulders more than 1 hour (3.1.d)	No	No	No
Progressive smouldering on final examination (3.1.e)	No	No	No
Flaming criteria			
Unsafe escalating combustion (3.2.a)	No	No	No
Test assembly essentially consumed (3.2.b)	No	No	No
Flames to extremities, except upper margins (3.2.c)	No	No	No
Flames through thickness (3.2.c)	No	No	No
Flames longer than 120 sec. (3.2.d)	No	No	No

Comments:

Before testing the sample was **not** subjected to the water soaking and drying procedure described in EN 1021-2, annex D.

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