



DANISH  
TECHNOLOGICAL  
INSTITUTE

Kvadrat A/S  
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Report no. A662908-1  
Page 1 of 2  
Date 18 September 2015  
Initials chf/ldkr/ac

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## Test Report

**Material:** Combination of upholstered material tested:  
**Cover:** Sample of upholstery fabric, designated: Stick Tree  
Fibre composition: 90% new wool, 10% polyamide  
Approximate mass per area unit: 369 g/m<sup>2</sup>  
  
**Filling:** Non flame-retardant polyurethane foam designated, E22120.  
Approximate density: 22 kg/m<sup>3</sup>. The foam is delivered from the Institute.

**Sampling:** The material was submitted by the assignor and received on Danish Technological Institute 10 September 2015.

**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 18 September 2015.


**Results:** According to the criteria of ignition described in EN 1021-1, chapter 3, the result is:  
  
**EN 1021-1: Non-ignition > PASSED**

**Terms:** The test has been performed according to the rear side conditions, which are according to the guidelines laid down by DANAK (The Danish Accreditation). The testing is only valid for the tested specimen. The test report may only be extracted, if the laboratory has approved the extract.

18 September 2015, Danish Technological Institute, Textile

  
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Material under test: Combination of upholstered material tested:  
**Cover:** Sample of upholstery fabric, designated: Stick Tree.  
 Fibre composition: 90% new wool, 10% polyamide  
 Approximate mass per area unit: 369 g/m<sup>2</sup>.

**Filling:** Non flame-retardant polyurethane foam designated, E22120.  
 Approximate density: 22 kg/m<sup>3</sup>. The foam is delivered from the Institute.

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)	No	No	No
Progressive smouldering on final examination (3.1.e)	No	No	No
<b>Flaming criteria</b>			
Any flames initiated by smouldering source (3.2)	No	No	No
<b>Self-extinguishing of the cigarettes before smouldering entire length</b>	No	No	No

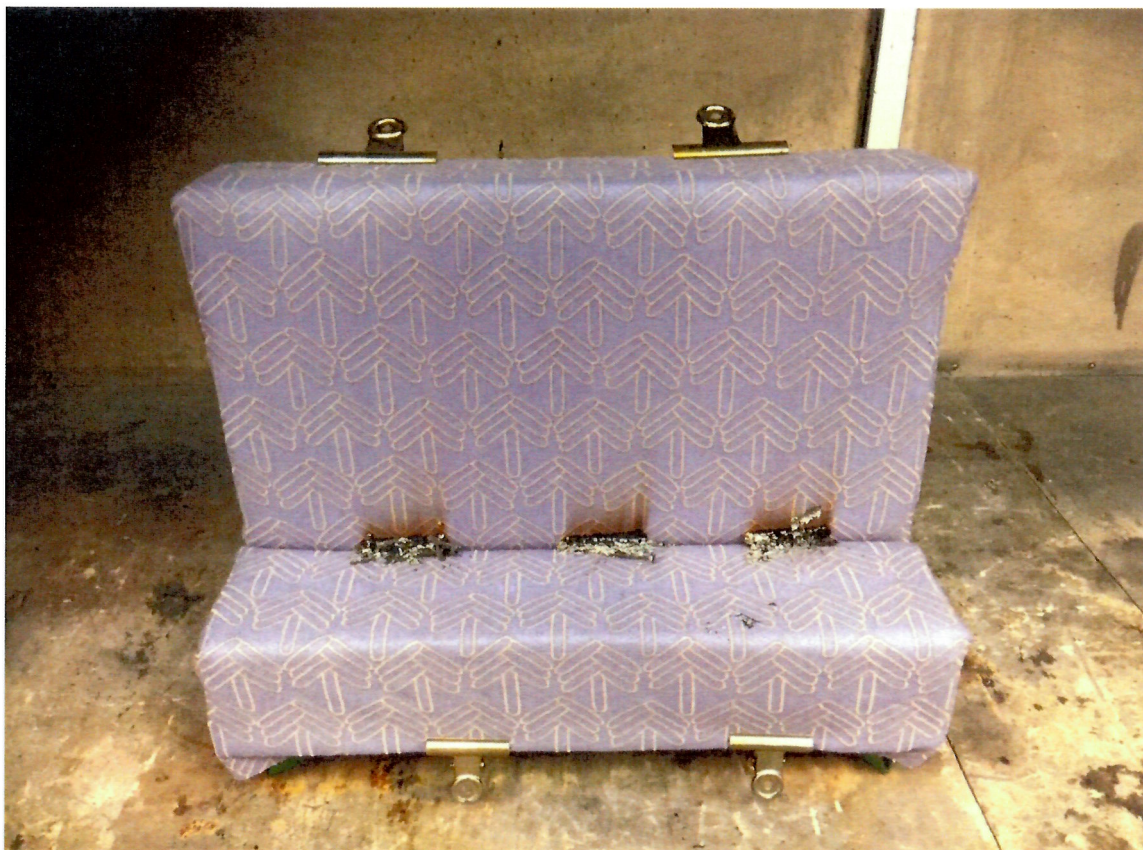
Comments: Before testing the sample was not subjected to the water soaking and drying procedure described in EN 1021-1, annex D.

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**Photo**





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## Test Report

**Material:** Combination of upholstered material tested:  
**Cover:** Sample of woven fabric, designated: Stick Tree  
Fibre composition: 90% new wool, 10% polyamide  
Approximate mass per area unit: 369 g/m<sup>2</sup>  
  
**Filling:** Non flame-retardant polyurethane foam designated, E22120.  
Approximate density: 22 kg/m<sup>3</sup>.  
(Foam was delivered by the institute)

**Sampling:** The material was submitted by the assignor and received on Danish Technological Institute on the 10 September 2015.

**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 18 September 2015.

**Results:** According to the criteria of ignition described in EN 1021-2, chapter 3, the result is:  
  
**EN 1021-2: Non- ignition > PASSES**

**Terms:** The test has been performed according to the rear side conditions, which are according to the guidelines laid down by DANAK (The Danish Accreditation). The testing is only valid for the tested specimen. The test report may only be extracted, if the laboratory has approved the extract.

18 September 2015, Danish Technological Institute, Textile

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Material under  
test:

Combination of upholstered material tested:  
**Cover:** Sample of woven fabric, designated: Stick Tree  
Fibre composition: 90% new wool, 10% polyamide  
Approximate mass per area unit: 369 g/m<sup>2</sup>

**Filling:** Non flame-retardant polyurethane foam designated, E22120.  
Approximate density: 22 kg/m<sup>3</sup>.

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 > PASSES

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
<b>Flaming criteria</b>			
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 1021-1, annex D.

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Annex 1

**Photo:**

