



**DANISH
TECHNOLOGICAL
INSTITUTE**

Protac A/S
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Report no. A656487-1
Page 1 of 2
Date 20 August 2015
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Test Report

- Material:** Combination of material for cushions, models:
200-201-10-38, 200-201-10-4-38, 200-201-12-38, 200-201-13-38, 200-201-14-38, 200-201-15-38, 200-201-11-38, 200-201-11-L-38.
Cover front side: Grey fabric, 100% polyester + PU coated+ FR backside
Cover back side: Black Vinyl lack+bielastic fabric.
Filling: EVA plastic balls 38 mm.
- Sampling:** The material was submitted by the assignor and received on Danish Technological Institute 12 August 2015.
- Method:** Testing of ignitability according to EN 1021-1:2006, 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 August 2015.
- Results:** According to the criteria of ignition described in EN 1021-1, chapter 3, the result is: EN 1021-1: **Non-ignition > PASS**
- 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.

20 August 2015, Danish Technological Institute, Textile


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Counter-signatory

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Material under test: Combination of material for cushions, models:
200-201-10-38, 200-201-10-4-38, 200-201-12-38, 200-201-13-38, 200-201-14-38, 200-201-15-38, 200-201-11-38, 200-201-11-L-38.
Cover front side: Grey fabric, 100% polyester + PU coated+ FR backside
Cover back side: Black Vinyl lack+bielastic fabric.
Filling: EVA plastic balls 38 mm.

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 1021-1:2006.

Ignition source: Smouldering cigarette.

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

Test result: Non-ignition > PASS

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

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

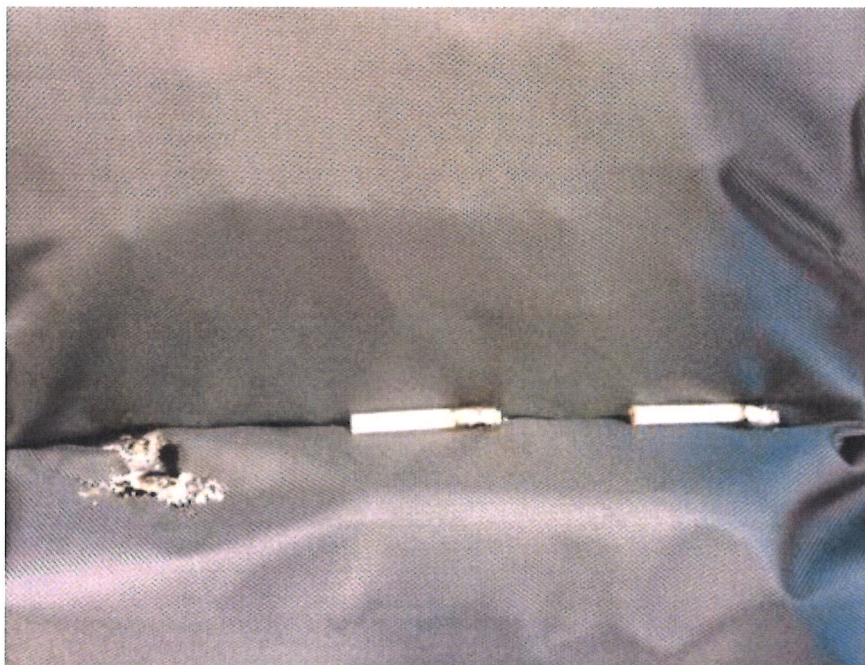
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Page Annex 1

Photo

Grey fabric



Black fabric





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Test Report

Material: Combination of material for cushions, models:
200-201-10-38, 200-201-10-4-38, 200-201-12-38, 200-201-13-38, 200-201-14-38, 200-201-15-38, 200-201-11-38, 200-201-11-L-38.
Cover front side: Grey fabric, 100% polyester + PU coated+ FR backside
Cover back side: Black Vinyl lack+bielastic fabric.
Filling: EVA plastic balls 38 mm.

Sampling: The material was submitted by the assignor and received on Danish Technological Institute on the 12 August 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 August 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.

20 August 2015, Danish Technological Institute, Textile


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Material under
test:

Combination of material for cushions, models:
200-201-10-38, 200-201-10-4-38, 200-201-12-38, 200-201-13-38, 200-201-14-38, 200-201-15-38, 200-201-11-38, 200-201-11-L-38.
Cover front side: Grey fabric, 100% polyester + PU coated+ FR backside
Cover back side: Black Vinyl lack+bielastic fabric.
Filling: EVA plastic balls 38 mm.

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

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

Comments:

Before testing the grey fabric was subjected to the water soaking and drying procedure described in EN 1021-1, annex D. The black fabric was not subjected to the water and soaking procedure.

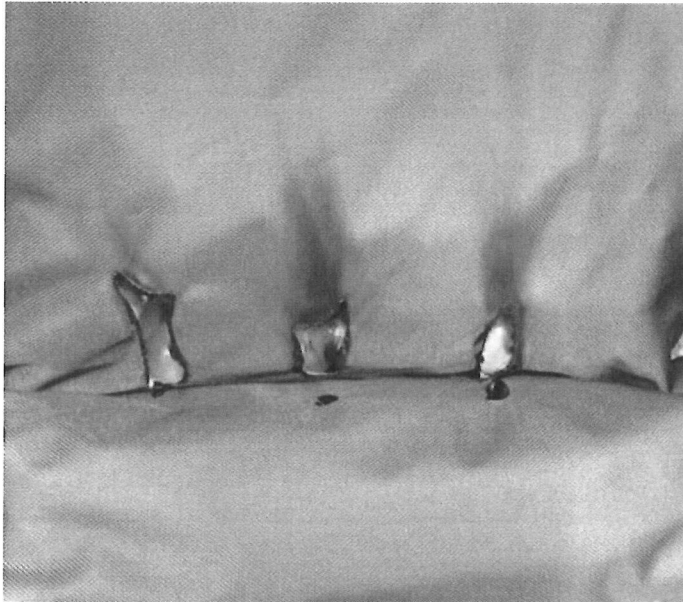
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Annex 1

Photo:

Grey fabric



Black fabric

