

**TEST REPORT  
IN-01346/2021-1**

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Date of issue: July 22<sup>nd</sup>, 2021

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The activities marked with (\*) are not included in the ENAC accreditation.

## TEST REPORT

**Report number:** IN-01346/2021-1

**Total pages:** 14

## SAMPLE RECEIVED

### Information provided by the applicant:

Description: DIMOUT FR  
Reference: ELITE

### Internal description and identification:

Description: Fabric  
Reference: M-01346/21



**Date of entry:** June 17<sup>th</sup>, 2021

## REQUESTED TESTS

- TEXTILES AND TEXTILE PRODUCTS. BURNING BEHAVIOUR. CURTAINS AND DRAPES. DETAILED PROCEDURE TO DETERMINE THE IGNIABILITY OF VERTICALLY ORIENTED SPECIMENS (SMALL FLAME)  
EN 1101:1995/A1:2005
- TEXTILES AND TEXTILE PRODUCTS. BURNING BEHAVIOUR. CURTAINS AND DRAPES. MEASUREMENT OF FLAME SPREAD OF VERTICALLY ORIENTED SPECIMENS WITH LARGE IGNITION SOURCE  
EN 13772 :2011
- TEXTILES AND TEXTILE PRODUCTS. FIRE BEHAVIOUR. CURTAINS AND DRAPERIES. CLASSIFICATION SCHEME  
EN 13773:2003



**TEXTILES AND TEXTILE PRODUCTS. BURNING BEHAVIOUR.  
 CURTAINS AND DRAPES. DETAILED PROCEDURE TO  
 DETERMINE THE IGNIABILITY OF VERTICALLY ORIENTED  
 SPECIMENS (SMALL FLAME)**

<b>Test standard:</b>	EN 1101:1995/A1:2005
<b>According to:</b>	N.A.
<b>Date of completion:</b>	July 05 <sup>th</sup> – 14 <sup>th</sup> , 2021

<b>Test equipment:</b>	
Vertical flammability test equipment, JBA, no. EQ299	
Chronometer, IHM, no. EQ2140	
Anemometer, TESTO, no. PA075	
Washing machine, WASCATOR FOM 71 MP-Lab, no. EQ516	
Balance, SARTORIUS, no. EQ116	

<b>Test conditions:</b>	
Conditioning of specimens: $\geq 24$ hours / $(20 \pm 2)$ °C / $(65 \pm 5)$ % r.h.	
Test atmosphere: 23,7°C / 63,5% r.h.	
Internal identification of specimens: M-01346/21	
Type of test: After domestic washing, in accordance with the applicant	
Pre-treatment of the test sample: According to the applicant's request <ul style="list-style-type: none"> <li>○ DOMESTIC WASHING, according to EN ISO 6330:2012, washing procedure: 3N</li> <li>○ Temperature: 30°C</li> <li>○ Washing powder: Without phosphates ECE-98</li> <li>○ Total mass of the specimens: 727,6 g</li> <li>○ Type of load: Panels composed of four thicknesses of 100% textured polyester knitted fabric, with a mass per unit area of <math>(310 \pm 20)</math> g/m<sup>2</sup>, and dimensions of <math>(20 \pm 4)</math> cm x <math>(20 \pm 4)</math> cm</li> <li>○ Total counterweight mass: 1290,5 g</li> <li>○ Total load: <math>(2 \pm 0,1)</math> kg</li> <li>○ Drying: Procedure: A – Air drying (each cycle)</li> <li>○ Cycles: 1 (1 wash cycle = wash + dry)</li> </ul>	
Number of specimens (according to EN ISO 6940:2004): 24 (12 lengthwise, 12 widthwise)	
Dimensions of the specimens: $200 \pm 2$ mm x $80 \pm 2$ mm	
Flame height: $40 \text{ mm} \pm 2 \text{ mm}$	
Test equipment setting (EN ISO 6940:2004): Procedure B – Ignition from the bottom edge (burner tilted 30°)	
Air speed: $< 0,2$ m/s	
Type of gas: Commercial propane	

**Results:**

<b>Preliminary test, according to EN 1101:1996/A1:2005, section 7</b>			
<b>Lengthwise / Warp</b>		<b>Widthwise / Weft</b>	
<b>Flame application time (s)</b>	<b>Results</b>	<b>Flame application time (s)</b>	<b>Results</b>
1	O	1	O
2	O	2	O
3	O	3	O
4	O	4	O
5	O	5	O
10	O	10	O
15	O	15	O
20	O	20	O

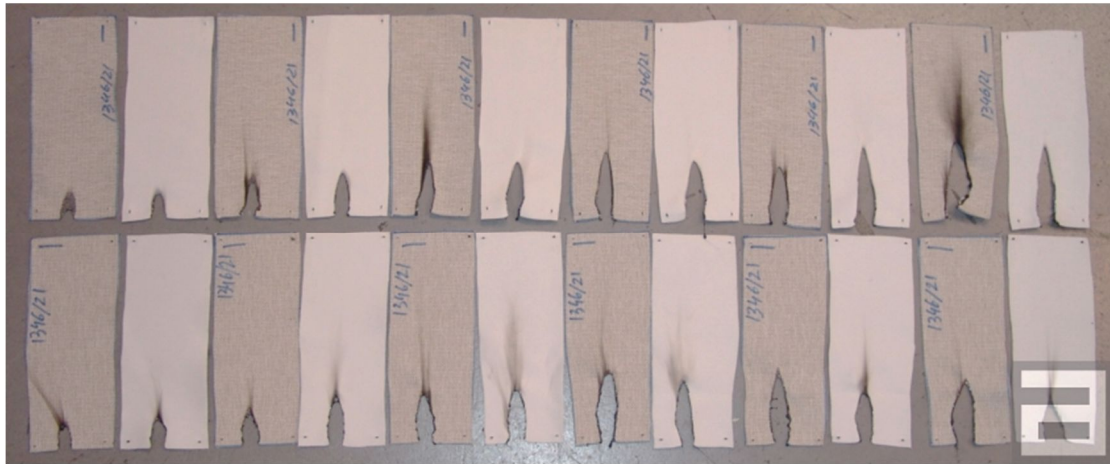
X: Ignition / O: Non-ignition

<b>Test according to EN ISO 6940:2004, section 11</b>				
<b>Specimen no.</b>	<b>Lengthwise / Warp</b>		<b>Widthwise / Weft</b>	
	<b>Flame application time (s)</b>	<b>Results</b>	<b>Flame application time (s)</b>	<b>Results</b>
# 1	20	O	20	O
# 2	20	O	20	O
# 3	20	O	20	O
# 4	20	O	20	O
# 5	20	O	20	O

X: Ignition / O: Non-ignition

	<b>Lengthwise / Warp</b>	<b>Widthwise / Weft</b>
<b>Mean ignition time (s)</b>	≥ 20	≥ 20
<b>Minimum ignition time (s)</b>	≥ 20	
<b>Ignition of the specimen within 20 s</b>	No	

**Picture after testing:**





**TEXTILES AND TEXTILE PRODUCTS. BURNING BEHAVIOUR.  
 CURTAINS AND DRAPES. MEASUREMENT OF FLAME  
 SPREAD OF VERTICALLY ORIENTED SPECIMENS WITH  
 LARGE IGNITION SOURCE**

<b>Standard:</b>	EN 13772 :2011
<b>According to:</b>	N.A.
<b>Date of completion:</b>	July 05 <sup>th</sup> – 19 <sup>th</sup> , 2021

<b>Test equipment:</b>
Vertical flammability test equipment, JBA, no. EQ299
Chronometer, IHM, no. EQ2140
Anemometer, TESTO, no. PA075
Millimeter ruler, no. EQ285
Washing machine, WASCATOR FOM 71 MP-Lab, no. EQ2080
Balance, SARTORIUS, no. EQ116

<b>Test conditions:</b>
Conditioning of specimens: $\geq 24$ hours / $(20 \pm 2)$ °C / $(65 \pm 5)$ % r.h.
Testing atmosphere: 23,8 °C / 49,2 % r.h.
Internal identification of specimens: M-01346/21
Type of test: In-as received conditions and after domestic washing
Pre-treatment of the specimens: <ul style="list-style-type: none"> <li>○ DOMESTIC WASHING, according to EN ISO 6330:2012, washing procedure: 3N</li> <li>○ Temperature: 30°C</li> <li>○ Washing powder: Without phosphates ECE-98</li> <li>○ Total mass of the specimens: 342,3 g</li> <li>○ Type of load: Panels composed of four thicknesses of 100% textured polyester knitted fabric, with a mass per unit area of <math>(310 \pm 20)</math> g/m<sup>2</sup>, and dimensions of <math>(20 \pm 4)</math> cm x <math>(20 \pm 4)</math> cm</li> <li>○ Total counterweight mass: 1667,8 g</li> <li>○ Total load: <math>(2 \pm 0,1)</math> kg</li> <li>○ Drying: Procedure A – Air drying (each cycle)</li> <li>○ Cycles: 12 (1 wash cycle = wash + dry)</li> </ul>
Sampling (according to EN 13772:2011): <ul style="list-style-type: none"> <li>● Number of specimens: 8 per type of test (4 lengthwise, 4 widthwise)</li> <li>● Dimensions of the specimens: 560 mm <math>\pm</math> 2 mm x 170 mm <math>\pm</math> 2 mm</li> </ul>
Material with different sides: Yes <ul style="list-style-type: none"> <li>● Outer side: Side A (dark color)</li> <li>● Inner side: Side B (light color)</li> </ul>
Reference material used: <ul style="list-style-type: none"> <li>● Standard cotton fabric (MR006)</li> <li>● Standard cotton marker thread (MR007)</li> <li>● Standard paper filter (MR008)</li> </ul>

Temperature increase ratio between 40°C and 100°C: (3,0 ± 1)°C/s
Flame height: 40 mm ± 2 mm
Test equipment settings (according to EN ISO 6941:2003): Procedure B – Ignition from the bottom edge (burner tilted 30°)
Air speed: < 0,2 m/s
Type of gas: Commercial propane

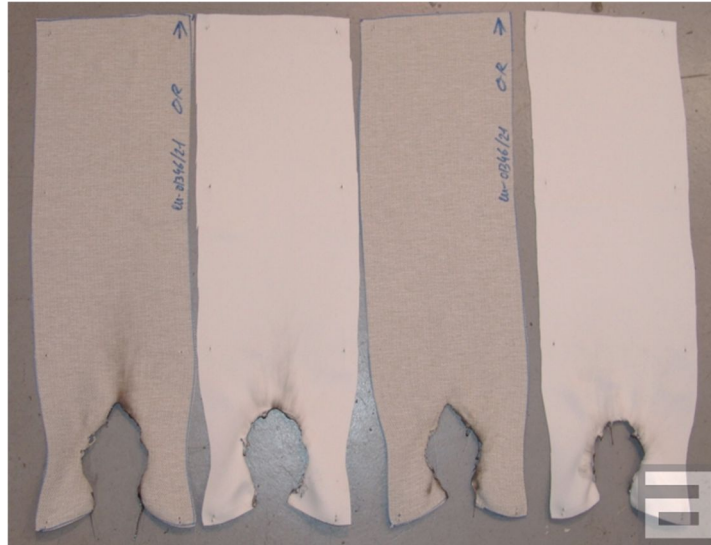
**Results:**

	In as-received conditions							
	Lengthwise / Warp				Widthwise / Weft			
Specimen no.	#1	#2	#3	#4	#1	#2	#3	#4
Tested side	A	B	A	B	A	B	A	B
Time elapsed from flame application to break 1 <sup>st</sup> marking thread (s)	-	-	-	-	-	-	-	-
Time elapsed from flame application to break 3 <sup>rd</sup> marking thread (s)	-	-	-	-	-	-	-	-
Uncertainty (s)	-				-			
1 <sup>st</sup> marking thread breaking	No	No	No	No	No	No	No	No
2 <sup>nd</sup> marking thread breaking	No	No	No	No	No	No	No	No
3 <sup>rd</sup> marking thread breaking	No	No	No	No	No	No	No	No
Specimen burns and extinguishes before the 1 <sup>st</sup> marking thread	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Length of the damaged area (mm)	134	124	125	110	115	108	105	101
Uncertainty (mm)	± 9				± 8			
Ignited dripping or residues burn the filter paper	No	No	No	No	No	No	No	No

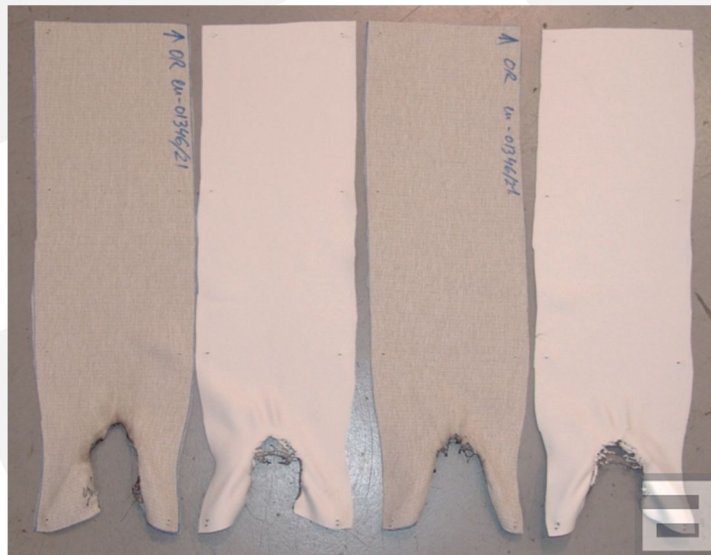
	After washing cycles							
	Lengthwise / Warp				Widthwise / Weft			
Specimen no.	#1	#2	#3	#4	#1	#2	#3	#4
Tested side	A	B	A	B	A	B	A	B
Time elapsed from flame application to break 1 <sup>st</sup> marking thread (s)	-	-	-	-	-	-	-	-
Time elapsed from flame application to break 3 <sup>rd</sup> marking thread (s)	-	-	-	-	-	-	-	-
Uncertainty (s)	-				-			
1 <sup>st</sup> marking thread breaking	No	No	No	No	No	No	No	No
2 <sup>nd</sup> marking thread breaking	No	No	No	No	No	No	No	No
3 <sup>rd</sup> marking thread breaking	No	No	No	No	No	No	No	No
Specimen burns and extinguishes before the 1 <sup>st</sup> marking thread	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Length of the damaged area (mm)	110	106	121	105	120	119	112	109
Uncertainty (mm)	± 12				± 7			
Ignited dripping or residues burn the filter paper	No	No	No	No	No	No	No	No



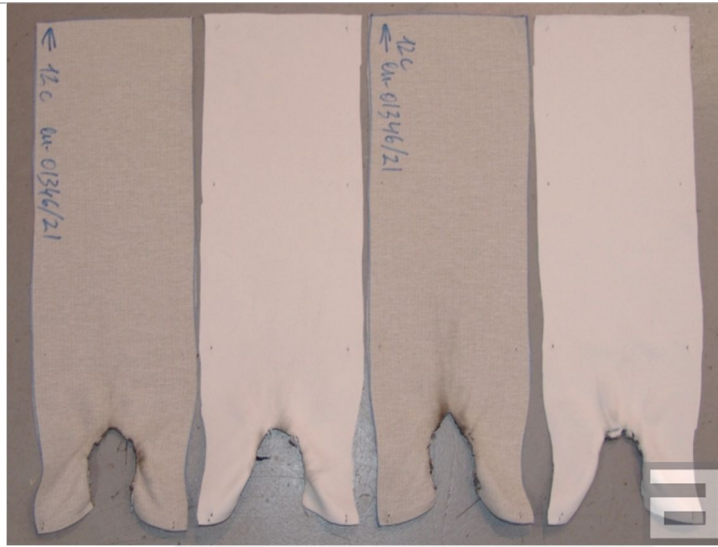
**Pictures after testing:**



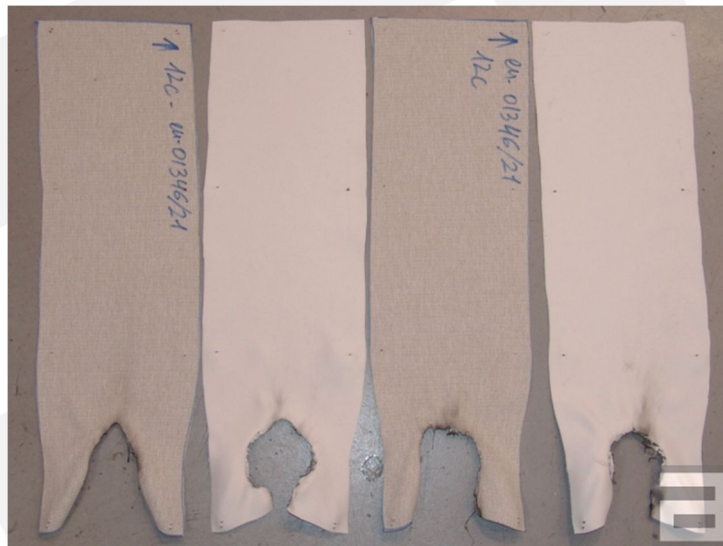
*As-received conditions. Direction: Lengthwise / Warp*



*As-received conditions. Direction: Widthwise / Weft*



After washing cycles. Direction: Lengthwise / Warp



After washing cycles. Direction: Widthwise / Weft



**TEXTILES AND TEXTILE PRODUCTS. FIRE BEHAVIOUR.  
 CURTAINS AND DRAPERIES. CLASSIFICATION SCHEME**



<b>Test standard:</b>	EN 13773:2003
<b>According to:</b>	N.A.
<b>Date of completion:</b>	July 05 <sup>th</sup> – 19 <sup>th</sup> , 2021

**Classification criteria, according to EN 13773:2003, section 5, table 1**

<b>Class</b>	<b>Flammability</b>	<b>Flame spread</b>
1	Non-ignition according to standard EN 1101:1995/A1:2005	First marking thread unaffected, without traces of flame action, according to the standard EN 13772:2011
2	Non-ignition according to standard EN 1101:1995/A1:2005	Third marking thread unaffected, without traces of flame action, according to the standard EN 13772:2011
3	Non-ignition according to standard EN 1101:1995/A1:2005	Third marking thread affected, and/or traces of flame action, according to standard EN 13772:2011
4	Ignition according to standard EN 1101:1995/A1:2005	Unaffected third marking thread without traces of flame action, according to standard EN 1102:2016
5	Ignition according to standard EN 1101:1995/A1:2005	Affected third marking thread and/or traces of flame action, according to standard EN 1102:2016

<b>CLASSIFICATION</b>	<b>CLASS 1</b>
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**SIGNATURE OF AUTHORISED PERSONNEL**

	
<b>Advanced Technology Services Technical Manager - Materials Area</b>	<b>Advanced Technology Services Head of Department</b>
Albert Briz	Jordi Jamilena

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