TEST REPORT
IN-01984/2022-1

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Date of issue: August 09th, 2022

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ENSAYO
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Nº18 / LE026

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TEST REPORT

Report number:	IN-01984/2022-1
Total pages:	15

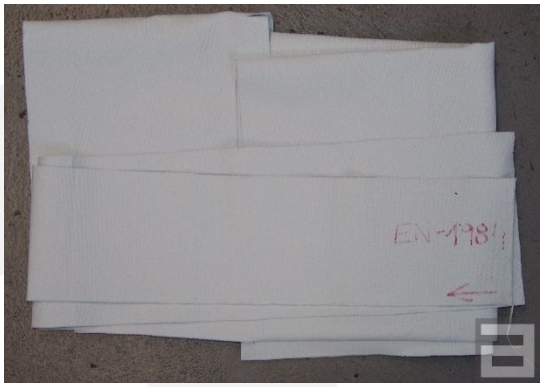
SAMPLE RECEIVED

Information provided by the applicant:

Description: Black Out FR
Reference: RUBIERA

Internal description and identification:

Description: Fabric
Reference: M–01984/22



Date of entry:	July 28th, 2022

REQUESTED TESTS

- TEXTILES. DOMESTIC WASHING AND DRYING PROCEDURES FOR TEXTILE TESTING
  EN ISO 6330:2012
- TEXTILES AND TEXTILE PRODUCTS. BURNING BEHAVIOUR. COURTAINS 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

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TEXTILES. DOMESTIC WASHING AND DRYING PROCEDURES FOR TEXTILE TESTING

Test standard:	EN ISO 6330:2012
According to:	Not applicable
Date of completion:	August 08th – September 06th, 2022

Test equipment:
Washing machine, WASCATOR FOM 71 MP-Lab, no. EQ516 (1 cycle)
Washing machine, WASCATOR FOM 71 CLS, no. EQ2080 (11 cycles)
Balance, SARTORIUS, no. EQ116

Test conditions:
Conditioning of the specimens: Not required
Internal identification: M-01984/22
Washing procedure: • Procedure: 3N • Temperature: 30ºC • Washing powder: Without phosphates ECE-98 • Total mass of the specimens: 847,2 g (1 cycle) and 607,7 g (11 cycles) • Type of load: Panels composed of four thicknesses of 100% textured polyester knitted fabric, with a mass per unit area of (310 ± 20) g/m2, and dimensions of (20 ± 4) cm x (20 ± 4) cm • Total counterweight mass: 1203,5 g (1 cycle) and 1410,6 g (11 cycles) • Total load: (2 ± 0,1) kg Drying procedure: A (Air drying) (each cycle) Number of cycles of washing and drying procedure: 1 and 12

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

Test standard:	EN 1101:1995/A1:2005
According to:	Not applicable
Date of completion:	August 26th, 2022

Test equipment:
Vertical flammability test equipment, JBA, no. EQ299
Chronometer, VENTIX, no. EQ1389
Anemometer, TESTO, no. PA075

Test conditions:
Conditioning of specimens: ≥ 24 hours at 20ºC ± 2ºC and 65% RH ± 5% RH
Test atmosphere: 24,3ºC / 60,4% RH
Internal identification of specimens: M-01984/22
Type of test: According to the applicant's request • After washing. EN ISO 6330:2012, 1 cycle, 30°C, drying procedure – A (after conditioning)
Number of specimens (according to UNE-EN ISO 6940:2004): 24 (12 lengthwise, 12 widthwise)
Dimensions of the specimens: 200 mm ± 2 mm x 80 mm ± 2 mm
Anisotropic material: No
Flame height: 40 mm ± 2 mm
Test equipment setting (according to UNE-EN ISO 6940:2004): Procedure B – Ignition from the bottom edge (burner tilted 30º)
Air speed: < 0,2 m/s
Tested area: Bottom edge
Type of gas: Propane, commercial grade

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Results:

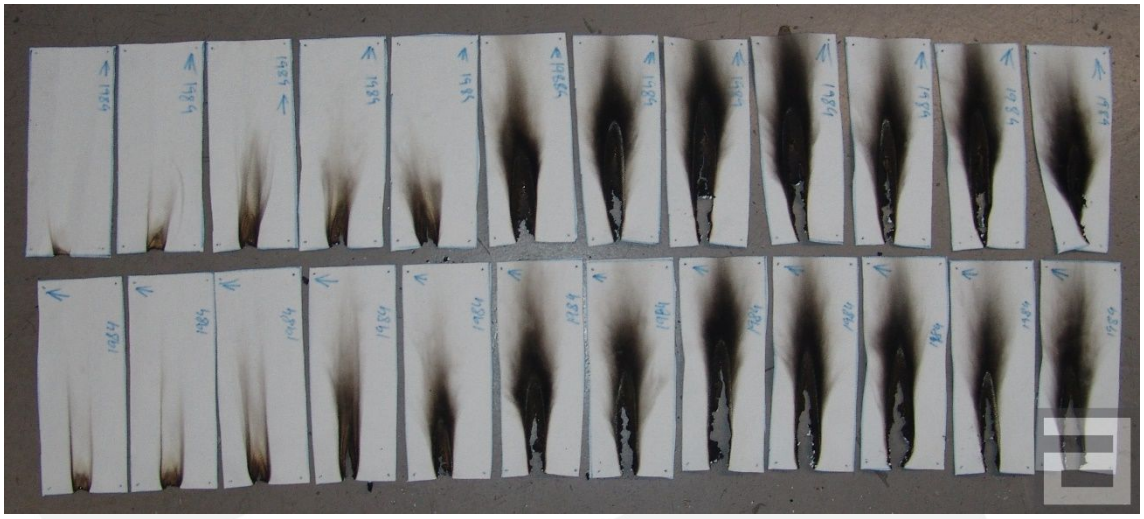
Preliminary test, according to EN 1101:1996/A1:2005, section 7			
Lengthwise / Warp		Widthwise / Weft	
Flame application time (s)	Results	Flame application time (s)	Results
1	O	1	O
2	O	2	O
3	O	3	O
4	O	4	O
5	O	5	O
10	O	10	O
15	O	15	O
20	O	20	O
X: Ignition / O: Non-ignition			

Test according to EN ISO 6940:2004, section 11				
Specimen no.	Lengthwise / Warp		Widthwise / Weft	
	Flame application time (s)	Results	Flame application time (s)	Results
#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				

Mean ignition time, according to EN ISO 6940 - Annex B.2				
Flame application time (s)	Lengthwise / Warp		Widthwise / Weft	
	Number of ignition cases	Number of cases of non-ignition	Number of ignition cases	Number of cases of non-ignition
1	0	1	0	1
2	0	1	0	1
3	0	1	0	1
4	0	1	0	1
5	0	1	0	1
10	0	1	0	1
15	0	1	0	1
20	0	5	0	5
Comments	---		----	

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

Picture after testing:



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

Test standard:	EN 13772:2011
According to:	Not applicable
Date of completion:	September 09th, 2022

Test equipment:
Vertical flammability test equipment, JBA, no. EQ299
Chronometer, VENTIX, no. EQ1389
Anemometer, TESTO, no. EQ3425
Milimeter ruler, no. EQ285

Test conditions:
Conditioning of specimens: ≥ 24 hours at (20 ± 2)ºC and (65 ± 5)% RH
Test atmosphere: 23,9ºC / 64,2% RH
Internal identification of specimens: M-01621/22
Type of test: According to the applicant's request • In-as received conditions (after conditioning) • After washing: EN ISO 6330:2012, 12 cycles, 30°C, drying procedure – A (after conditioning)
Sampling (according to EN 13772:2011): • Number of specimens: 8 (4 lengthwise, 4 widthwise) • Dimensions of the specimens: 560 mm ± 2 mm x 170 mm ± 2 mm
Material with different sides: No
Reference material used: • Standard cotton fabric (internal ref.MR006) • Standard cotton marker thread (internal ref.MR007) • Standard paper filter (internal ref.MR008)
Temperature increase ratio between 40ºC and 100ºC: (3,0 ± 1)ºC/s
Flame height: 40 mm ± 2 mm
Air speed: < 0,2 m/s
Tested area: Bottom edge
Type of gas: Propane, commercial grade

Results:

In as-received conditions								
	Lengthwise / Warp				Widthwise / Weft			
Specimen no.	#1	#2	#3	#4	#1	#2	#3	#4
1st marking thread breaking	**No**	**No**	**No**	**No**	**No**	**No**	**No**	**No**
2nd marking thread breaking	**No**	**No**	**No**	**No**	**No**	**No**	**No**	**No**
3rd marking thread breaking	**No**	**No**	**No**	**No**	**No**	**No**	**No**	**No**
Specimen burns and extinguishes before the 1st marking thread	**Yes**	**Yes**	**Yes**	**Yes**	**Yes**	**Yes**	**Yes**	**Yes**
Time elapsed from flame application to break 3rd marking thread (s)	---	---	---	---	---	---	---	---
Uncertainty (s)	---				---			
Length of the damaged area (mm)	**128**	**171**	**144**	**128**	**152**	**146**	**142**	**157**
Uncertainty (mm)	± 3				± 11			
Ignited dripping or residues burn the filter paper	**No**	**No**	**No**	**No**	**No**	**No**	**No**	**No**

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After washing								
	Lengthwise / Warp				Widthwise / Weft			
Specimen no.	#1	#2	#3	#4	#1	#2	#3	#4
1st marking thread breaking	**No**	**No**	**No**	**No**	**No**	**No**	**No**	**No**
2nd marking thread breaking	**No**	**No**	**No**	**No**	**No**	**No**	**No**	**No**
3rd marking thread breaking	**No**	**No**	**No**	**No**	**No**	**No**	**No**	**No**
Specimen burns and extinguishes before the 1st marking thread	**Yes**	**Yes**	**Yes**	**Yes**	**Yes**	**Yes**	**Yes**	**Yes**
Time elapsed from flame application to break 3rd marking thread (s)	---	---	---	---	---	---	---	---
Uncertainty (s)	---				---			
Length of the damaged area (mm)	**189**	**144**	**144**	**161**	**136**	**166**	**178**	**134**
Uncertainty (mm)	± 34				± 35			
Ignited dripping or residues burn the filter paper	**No**	**No**	**No**	**No**	**No**	**No**	**No**	**No**

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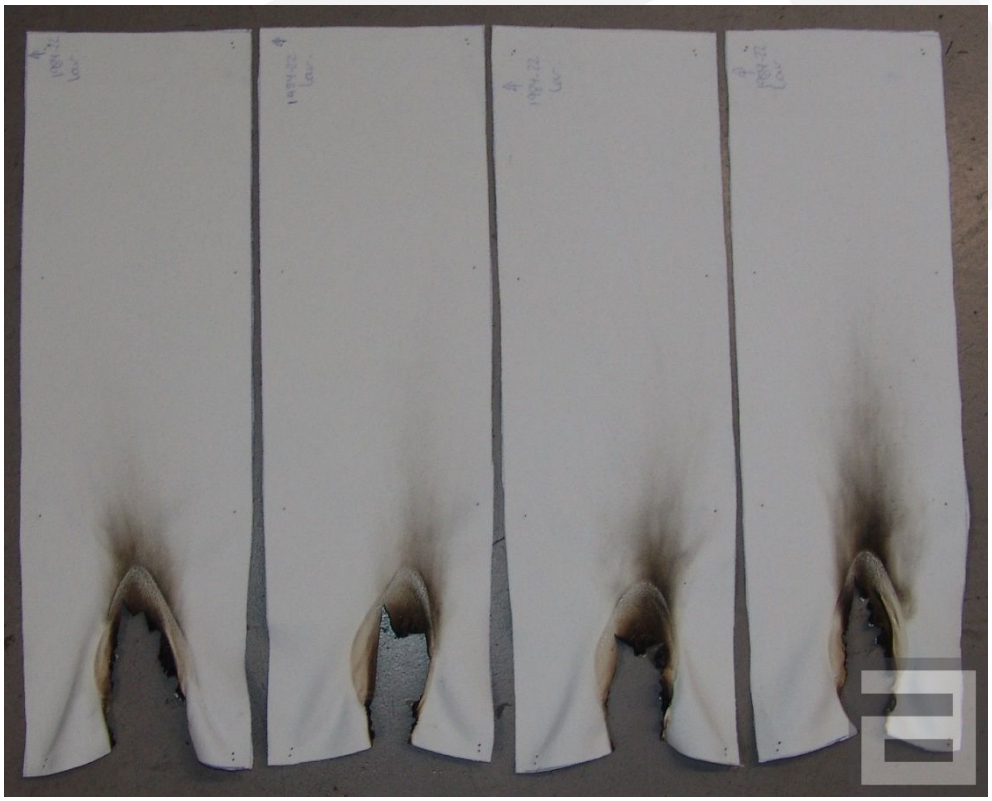
Pictures after testing:

As-received conditions. Direction: Lengthwise / Warp



As-received conditions. Direction: Widthwise / Weft

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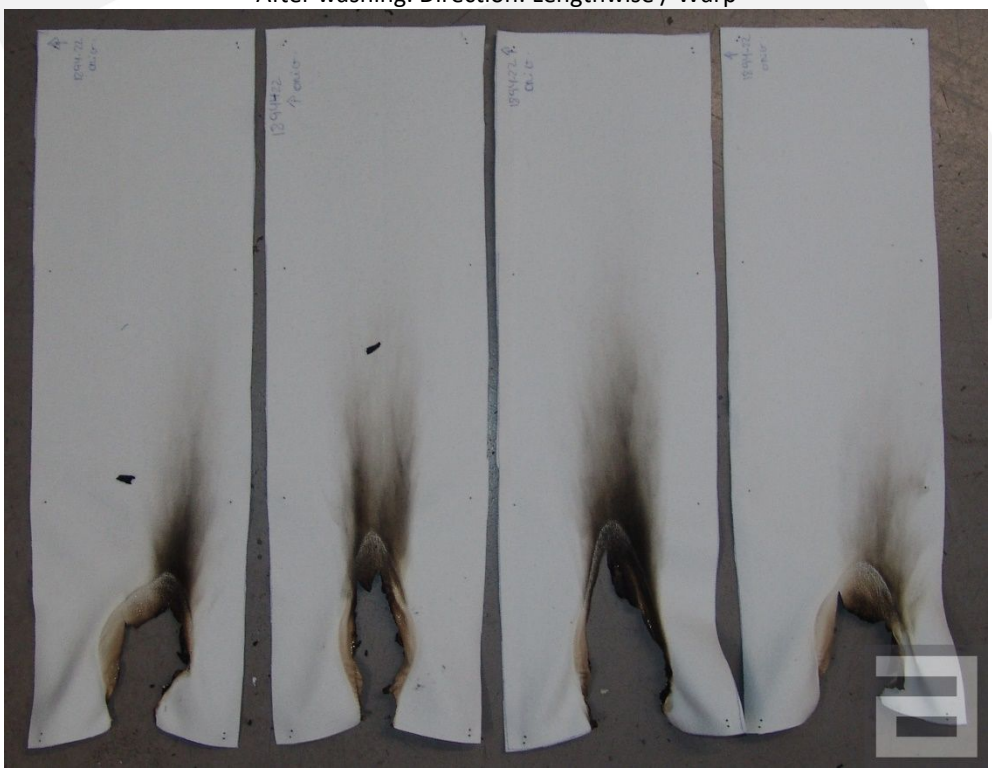
After washing. Direction: Lengthwise / Warp



After washing. Direction: Widthwise / Weft

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

Test standard:	EN 13773:2003
According to:	Not applicable
Date of completion:	August 26th – September 12th, 2022

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

Class	Flammability	Flame spread
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 1102:1996

CLASSIFICATION	**CLASS 1**

SIGNATURE OF AUTHORISED PERSONNEL

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Advanced Technology Services **Technical Manager - Materials Area** Albert Briz	**Advanced Technology Services** **Head of Department** Jordi Jamilena

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

The material intended to be used in/as hanging textile elements, such as curtains, drapes, etc., referenced as:

RUBIERA

Submitted by:

INDETEX NV
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Belgium

It has been tested at LEITAT–Technological Center (report **IN-01984/2022-1**) according to **EN 1101:1995/A1:2005** and **EN 13772:2011**.

The classification according to the requirements of the standard **EN-13773:2003** is:

CLASS 1

Terrassa, September 13th, 2022

Albert Briz
Technical Manager – Materials Area

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