

GLASSIFICATION, ACCORDING TO THEIR FIRE REACTION PROPERTIES, OF TEXTILE SUSPENDED ELEMENTS

TECHNICAL BUILDING CODE

Basic Document - Safety in case of fire (DB-SI)

The material intended for use as a suspended textile element (curtains, drapes...) referenced as

### BELVI

presented by

INDETEX N.V.
RUE DU MONT GALLOIS, 58
B-7700 - MOUSCRON
(BELGIUM)

has been tested at LEITAT—Technological Center (report no.IN-01157/2019-E) according to the standards UNE-EN 1101:1996/A1:2005 (equivalent to EN 1101:1996/A1:2005) and UNE-EN 13772:2011 (equivalent to EN 13772:2011).

The classification obtained according to the requirements of the standard UNE-EN 13773:2003 (equivalent to EN 13773:2003) is:

CLASS 1

Terrassa, May 29th, 2019

(Document valid until May 29th, 2024)

Sergi Artigas
Corporate Development Manager

Tecnio ACCIÓ Generalist Finsa 0/122019 Mil Generalist Generalist Generalist Finsa 0/122019

E N S A Y O S

Albert Briz Materials Unit Technical Manager

Acondicionamiento Tarresense C/ de la Innovació, 2 - 06225 Terressa (Barceloniu) Tel. +34 93 788 23 00 - Fex +34 93 789 19 06 www.leitat.org





INDETEX N.V. **RUE DU MONT GALLOIS, 58** 7700 - MOUSCRON BELGIUM

### 

Report No.:

IN-01157/2019-E

Total pages:

PRESENTED SAMPLE

Sample description:

According to the information provided by the applicant:

Product: Blackout curtain; Reference: BELVI; Composition: 100% Polyester + 3 pass coating; Weight: 275 g/m²; Color: Green

Presentation date: 10/05/2019

### REQUESTED TESTS

- TEXTILES AND TEXTILE PRODUCTS. BURNING BEHAVIOUR. COURTAINS AND DRAPES. DETAILED PROCEDURE TO DETERMINE THE IGNIABILITY OF VERTICALLY ORIENTED SPECIMENS (SMALL FLAME). Standard: UNE-EN 1101:1996/A1:2005
- TEXTILES AND TEXTILE PRODUCTS. BURNING BEHAVIOUR. CURTAINS AND DRAPES. MEASUREMENT OF FLAME SPREAD OF VERTICALLY ORIENTED SPECIMENS WITH LARGE IGNITION SOURCE. Standard: UNE-EN 13772:2011
- TEXTILES AND TEXTILE PRODUCTS. BURNING BEHAVIOUR. CURTAINS AND DRAPES. CLASSIFICATION SCHEME. Standard: UNE-EN 13773:2003

Performance dates: From 10/05/2019 to 29/05/2019

Material Unit Coordinator Jordi Jamilena

Firmado digitalmente por Albert Briz Aguilar Firmado digitalmente por Albert Briz Aguilar

Nombre de reconocimiento (DNI), e-15.

cn=Albert Briz Aguilar, email-legal@leital.org,
serialNumber=46237530D, sn=Briz Aguilar,
givenName=Albert,
1.3.6.1.4.1.17326.30.3=G08360232,
o=ACONDICIONAMIENTO TARRASENSE, ou=STA,
Materials Unit Te hnid#-INEMALY PLE TÉCNICO MATERIALES,
Albert Briz 2.5.4.13=Qualified Certificate: CAM-PF-SW-KPSC
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Terrassa, May 29th, 2019

portemed under the criteria of Good Invectormental Practices, r I reduction of waste generation and emission of politicals into v I techniques within our Laboratory's reach. been ein contained has or have t I natural resources concum Jornemation of the best ave The test's herein on the control of the control of





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

Standard: UNE-EN 1101:1996/A1:2005

Scope: This standard specifies a method for measuring the ignitability of vertically oriented textile fabrics, and of industrial products in the form of single or multi-composite fabrics (coated, padded, multi-layer, sandwich constructions and similar combinations), when subjected to a small and defined flame.

Test equipment:

Vertical flammability test equipment, JBA, no.EQ299

Chronometer, VENTIX, no.EQ1389 Anemometer, TESTO, no.PA075

Conditioning of the specimens: >24 hours at 20°C  $\pm$  2°C and 65% r.h.  $\pm$  5% r.h.

#### Test conditions:

Identification of test material: According to the information provided by the applicant

Product: Blackout curtain; Reference: BELVI; Composition: 100% Polyester + 3 pass coating; Weight: 275 g/m²; Color: Green

Type of test: As indicated by the applicant

After 1 domestic washing cycle (UNE-EN ISO 6330:2012) at 30°C + Drying: C - Flat (UNE-EN ISO 6330:2012)

Sampling (according to UNE-EN ISO 6940:2004):

Number of specimens: 12 in each direction

Dimensions of the specimens: 200 mm  $\pm$  2 mm  $\times$  80 mm  $\pm$  2 mm

Test atmosphere: 21,6°C / 49,2% r.h.

Test equipment settings (according to UNE-EN ISO 6940:2004): Procedure B - Ignition from the bottom edge (burner inclined 30°); Flame height: 40 mm ± 2 mm

Air speed: < 0.1 m/s

Tested side: Outer side

Type of gas: Propane, commercial grade

Date of performance: May 24th, 2019

### Results:

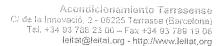
	Lengthwise / W	arp	Width	vise / Weft
Previous <sup>I</sup> test	lame application time	(s) Result F	lame application	n time (s) Result
.031	20	0	20	0

Specimen no, I	Lengthwise / ¹ Flame application time (s)	Warp Result	Widthwise / Flame application time (s)	Weft Result
a transfer had to had t		0	20	0
<b>Z</b>	20	0	20	0
3	20	0	20	0
4	20	0	20	0
5	20	0	20	. 0
Y. Ignition / O. I				U

X: Ignition / O: Not ignition

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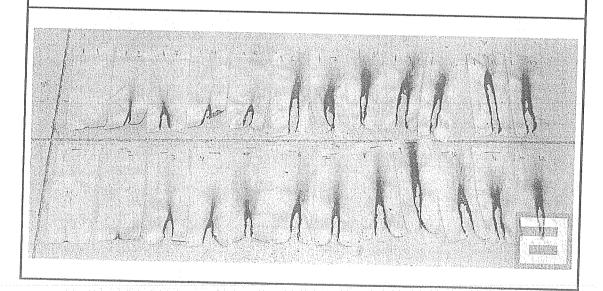
Flame	Lengi	thwise / Wa	arp			Widt	hwise / Weft	
application time (s)	Number of	이 성격이 많으셨다. [편집]	ber o	医乳腺性溃疡 化苯甲烷基苯二甲基	1. 人名英格兰克 经共产 医药	nberof	Number of no	7
20	ignition case	s ignii	ion ca	ases	ignitic	on cases	s Ignition cases	
20	0		5			0	5	

	Lengt	hwise / ˈ	Warp W	idthwise /	Weft
Mean ignition time (s)		>20		>20	
Minimum ignition time (s)			>20		
Fabric ignition after 20 s		NO		NO	

### Picture after testing:

## PICTURES OF THE TESTED SPECIMENS (Blackout curtain, BELVI)

UNE-EN 1101:1996/A1:2005 - "TEXTILES AND TEXTILE PRODUCTS. BURNING BEHAVIOUR. COURTAINS AND DRAPES. DETAILED PROCEDURE TO DETERMINE THE IGNIABILITY OF VERTICALLY ORIENTED SPECIMENS (SMALL FLAME)"







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

Standard: UNE-EN 13772:2011

Scope: This European standard specifies a method for measuring flame propagation in vertically oriented textile fabrics intended for curtains and draperies, whether in the form of single or multi-component fabrics (coated, padded, multi-layer, sandwich structure, and similar combinations) using a large flame ignition source.

Test equipment:

Vertical flammability test equipment, JBA, no.EQ299

Chronometer, VENTIX, no.EQ1389 Anemometer, TESTO, no.PA075 Millimeter ruler, no.EQ285

Conditioning of the specimens: >24 hours at 20°C ± 2°C and 65% r.h. ± 5% r.h.

Test conditions:

Identification of test material: According to the information provided by the applicant

 Product: Blackout curtain; Reference: BELVI; Composition: 100% Polyester + 3 pass coating; Weight: 275 g/m²; Color: Green

Number of specimens: 8 (4 in the lengthwise/warp direction + 4 in the widthwise/weft direction)

Dimensions of the specimens:  $(560 \pm 2)$  mm x  $(170 \pm 2)$  mm

Type of test: As indicated by the applicant

- In as-received condition
- After 12 domestic washing cycles (UNE-EN ISO 6330:2012) at 30°C + Drying: C Flat (UNE-EN ISO 6330:2012)

Reference material:

- Standard cotton fabric (MR006)
- Standard cotton marker thread (MR007)
- Standard paper filter (MR008)

Test atmosphere: 23,2°C / 52% r.h.

Type of gas: Propane, commercial grade

Flame application: Ignition from the bottom edge (burner inclined 30°)

Air speed: < 0,1 m/s

Temperature increase of the calorimeter between 40°C and 100°C:  $(3,0 \pm 0,1)$ °C/s

Radiator application time: 30 seconds

Flame application time: 10 seconds

Flame height: 40 mm ± 2 mm

Anisotropic material: No

Date of performance: May 24th, 2019

Report No.: IN-01157/2019-E

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### Results:

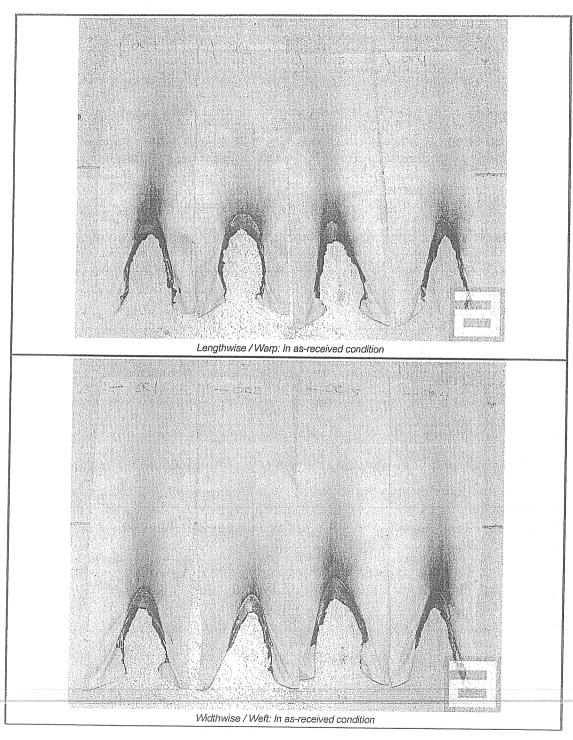
Type of test: In as-received condition	Le	engthw	rise / V	Varp	ν	Vidthw	rise / W	/eft
Specimen no.	1	2	3	4	1	2	3	4
Time elapsed from flame application to marker thread breakage (s)								
From the beginning to 1 <sup>st</sup> thread	0	0	0	0	0	0	0	0
From the beginning to 2 <sup>nd</sup> thread	0	0	0	0	0	0	0	0
From the beginning to 3 <sup>rd</sup> thread	0	0	0	0	0	0	0	0
Marker yarns breakage								
1 <sup>st</sup> marker thread	No	No	No	No	No	No	No	No
2 <sup>nd</sup> marker thread	No	No	No	No	No	No	No	No
3 <sup>rd</sup> marker thread	No	No	No	No	No	No	No	No
Specimen burns and extinguishes before the 1st marker thread	No	No	No	No	No	No	No	No
Length of the damaged area (mm)	176	183	189	182	161	176	164	167
Inflamed residues that burn the filter paper	No	No	No	No	No	No	No	No



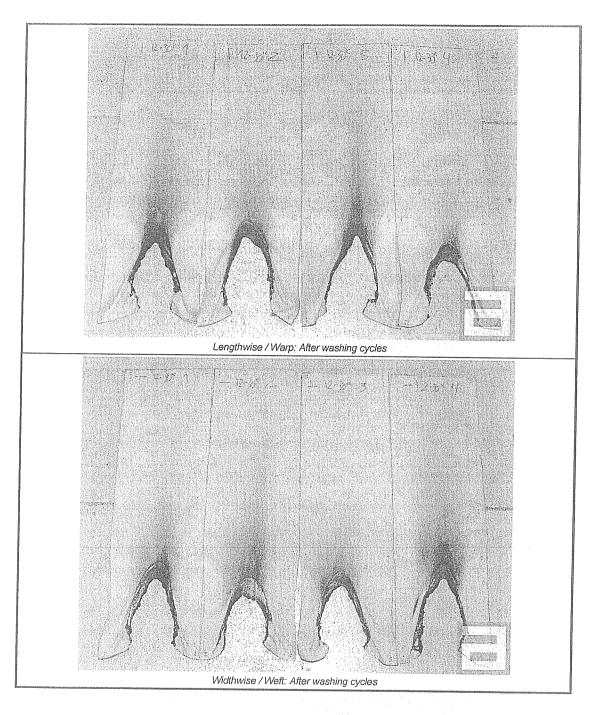
L	engthv	vise / V	Narp	Widthwise / Weft			
1	2	3	4	9 9 <b>1</b>	2	3	4
D							
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
0	0	0	0	0	0	0	0
No	No	No	No	No	No	No	No
No	No	No	No	No	No	No	No
No	No	No	No	No	No	No	No
No	No	No	No	No	No	No	No
169	189	186	154	172	144	167	171
No	No	No	No	No	No	No	No
	0 0 0 No No	1 2 0 0 0 0 0 0 0 0 No No No No No No No No	1 2 3 0 0 0 0 0 0 0 0 0 0 0 0 0 No 169 189 186	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 2 3 4 1 0 No 169 189 186 154 172	1 2 3 4 1 2  0 0 0 0 0 0 0  0 0 0 0 0 0  0 0 0 0	1 2 3 4 1 2 3  0 0 0 0 0 0 0 0  0 0 0 0 0 0 0  0 0 0 0 0 0 0  0 0 0 0 0 0 0  No No No No No No No No  No No No No No No No  No No No No No No No  No No No No No No No  No No No No No No No  169 189 186 154 172 144 167



### Pictures after testing:











### TEXTILES AND TEXTILE PRODUCTS. BURNING BEHAVIOUR, CURTAINS AND DRAPES. CLASSIFICATION SCHEME.

According to: UNE-EN 13773:2003

Scope: This standard specifies a classification scheme for the burning behaviour of vertically oriented fabrics intended for curtains and draperies and similar uses such as blinds and tapestries, where a classification is required.

### Description of the presented material:

According to the information provided by the applicant: Blackout curtain

Reference or trade name of the product:	BELVI
End-use or final disposition:	Curtains
Composition:	100% Polyester + 3 pass coating
Weight (g/m²):	275
Thickness (mm):	Information not provided by the applicant
Color:	Green

### Classification of the presented material:

According to the results obtained in this technical report, and following the indications of section 5 in UNE-EN 13773:2003, the material is classified as:

STANDARD	CRITERIA	RESULTS		
UNE-EN 1101:1996/A1:2005	Ignition			
ONE-EN 1101.1990/A1.2003	Non-ignition	Non-ignition		
UNE-EN 1102:1996	Not applicable	N.A.		
	First marking thread affected			
UNE-EN 13772:2011	Third marking thread affected	First marking thread not affected. No residues of the		
SAN NUMBER OF STREET	Residues of the flame action appear			
CLASSIFICATION	CLA	SS 1		

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