

SI Basic Document. Safety in case of fire

CERTIFIES

LEONE

Indetex NV
RUE DUMONT GALLOI n°58
7700, MOUSCRON
BELGIUM

UNE EN 1101:96/A1:05 and UNE EN 13772 :11

COMPLIES

CLASS 1

Corporation Development Manager
Sergi Artigas

Certification Supervisor
Josep M^a Pallarès i Soler

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Indetex NV
RUE DUMONT GALLOI n°58
7700 - MOUSCRON
BELGIUM

TECHNICAL REPORT OF CERTIFICATION

Report No.: IN-02126/2017-C-E-1
Pages: 2

PRESENTED SAMPLE

Sample description:

3 pass of blackout fabric, with the following technical characteristics:

Reference or trade name of the product:	LEONE
Use or final disposal:	Curtains
Composition:	100% Polyester with FR acrylic covering
Weight for unit of surface:	420 g/m ²
Thickness:	0.6 mm
Colour:	White

Presentation date: 22/09/17

REQUESTED TESTS

Technical report No IN-02126/2017-E-1 emitted by LEITAT on date of the October 09th, 2017:

- TEXTILE AND TEXTILE PRODUCTS. BURNING BEHAVIOUR. CURTAINS AND DRAPES. DETAILED PROCEDURE TO DETERMINE THE IGNITABILITY OF VERTICALLY ORIENTED SPECIMENS (SAML FLAME).
Standard UNE EN 1101:96/A1:05
- TEXTILE AND TEXTILE PRODUCTS. BURNING BEHAVIOUR. CURTAINS AND DRAPES. MEASUREMENT OF FLAME SPREAD VERTICALLY ORIENTED SPECIMENS WITH LARGE IGNITION SOURCE.
Standard UNE-EN 13772:11

Performance dates: from 22/09/17 to 09/10/17

Technical Responsible
Gemma Ferrer

Terrassa, October 09th, 2017

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CLASSIFICATION

- TEXTILES AND TEXTILE PRODUCTS. BURNING BEHAVIOUR. CURTAINS AND DRAPES. CLASSIFICATION SCHEME
Standard UNE EN 13773:03

According to the results obtained in the report IN-02126/2017-E-1

Standard	Criterion	Result
UNE EN 1101:96/A1:05	Ignition	Not ignition
	Not ignition	
UNE EN 1102:96	Third yarn of marking affected	Not apply
	Appearance of the remains of the flame action	
UNE EN 13772:11	First yarn of marking affected	First yarn of marking not affected and there is not remains of the flame action
	Third yarn of marking affected	
	Appearance of the remains of the flame action	

ACCORDING TO THE POINT 5.2 OF THE STANDARD UNE EN 13773:03 THE CLASSIFICATION OBTAINED FOR THIS MATERIAL IS:

CLASS 1

Indetex NV
RUE DUMONT GALLOI n°58
7700 - MOUSCRON
BELGIUM

TECHNICAL REPORT

Report N°: IN-02126/2017-E-1
Pages: 7

PRESENTED SAMPLE

Sample description:

3 pass of blackout fabric, with the following technical characteristics:

<i>Reference or trade name of the product:</i>	LEONE
<i>Use or final disposal:</i>	Curtains
<i>Composition:</i>	100% Polyester with FR acrylic covering
<i>Weight for unit of surface:</i>	420 g/m ²
<i>Thickness:</i>	0.6 mm
<i>Colour:</i>	White

Presentation date: 22/09/17

REQUESTED TESTS

- TEXTILE AND TEXTILE PRODUCTS. BURNING BEHAVIOUR. CURTAINS AND DRAPES. DETAILED PROCEDURE TO DETERMINE THE IGNITABILITY OF VERTICALLY ORIENTED SPECIMENS (SAMLL FLAME).
Standard UNE EN 1101:96/A1:05
- TEXTILE AND TEXTILE PRODUCTS. BURNING BEHAVIOUR. CURTAINS AND DRAPES. MEASUREMENT OF FLAME SPREAD VERTICALLY ORIENTED SPECIMENS WITH LARGE IGNITION SOURCE.
Standard UNE EN 13772:11

Performance dates: from 22/09/17 to 09/10/17



Reaction to Fire Technical Manager
Gemma Ferrer

Terrassa, October 09th, 2017

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DETERMINATION OF THE IGNITABILITY OF VERTICALLY ORIENTED SPECIMENS (SAMPL FLAME)

Standard UNE EN 1101:1996/A1:2005

Scope: This test aims to determine the ignitability of textile fabrics orientated vertically when they submit to a small and defined flame.

Equipment used: Chronometer, Vertical propagation, Anemometer

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

Test conditons:

Pre-treatment: 1 cycle of domestic washing at 30°C and flat dry (UNE EN ISO 6330:2012)

Sample type: Monolayer

Specimen dimensions: 200±2mm x 80±2mm

Number of specimens: 8 in every direction

Test side: Exterior

Test atmosphere : (10-30)°C – (15-80)% Rh

Speed air < 0,2 m/s

Procedure: combustion for the inferior edge, inclined lighter 30°

Type of gas: Commercial propane

Results obtained:

Nº of specimen	Longitudinal		Transversal	
	Time of flame (s) application	Result (*)	Time of flame (s) application	Result (*)
1	1	0	1	0
2	2	0	2	0
3	3	0	3	0
4	4	0	4	0
5	5	0	5	0
6	10	0	10	0
7	15	0	15	0
8	20	0	20	0

(*) x: ignition, 0: not ignition

Time in seconds	Longitudinal		Transversal	
	Number of ignition cases (x)	Number of not ignition cases (0)	Number of ignition cases (x)	Number of not ignition cases (0)
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	1	0	1

	Longitudinal	Transversal
Average time of ignition	---	---
Minimum time of ignition	---	---
Ignition of the fabric ≤ 20 s	No	No
Observations:	----	

CURTAINS AND DRAPES. MEASUREMENT OF FLAME SPREAD VERTICALLY ORIENTED SPECIMENS WITH LARGE IGNITION SOURCE

Standard UNE EN 13772:11

Concept: Method to determine the burning behaviour of curtains and drapes, single-layer or multi-layer fabric (covered, padded, multilayer, sandwich structure and similar combinations) using the measurement of flame spread vertically oriented specimens with large ignition source

Equipment used: Vertical combustion, Chronometer, Anemometer, Ruler.

Specimen conditioning: 24 hours at (20±2)°C and (65±5)%hr.

Test conditions:

Pre-treatment: Original and after 12 cycles of domestic washing at 30°C and flat drying
Flame application: Inferior edge ignition
Lighter position: I Inclined 30° with regard to the vertical
Vertical movement of the air: 0,2 m/s
Increase of the calorimeter temperature among 40°C and 100°C: 3,0±0,1 °C/s
Time of radiator application: 30 s
Time of flame application: 10 s
Flame height: 40 ± 2 mm
Type of gas: Propane
Number of specimens: Direction Warp: 4, direction Weft: 4

Results obtained:

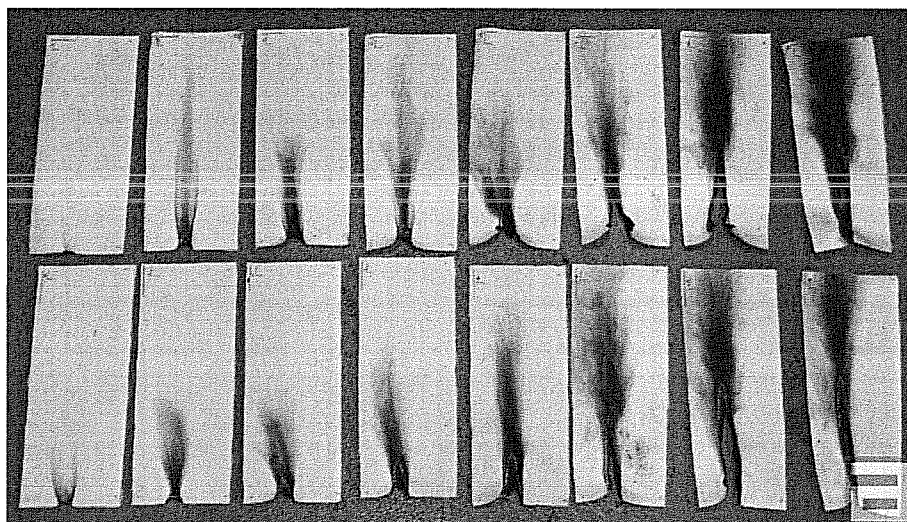
ORIGINAL	Warp				Weft			
	1	2	3	4	1	2	3	4
Specimens Nº								
Average time of flame spread (s)								
From the beginning to 1 st yarn	0	0	0	0	0	0	0	0
From the beginning to 2 nd yarn	0	0	0	0	0	0	0	0
From the beginning to 3 ^{er} yarn	0	0	0	0	0	0	0	0
Number of specimens that burn to								
The 1 ^{er} yarn	No	No	No	No	No	No	No	No
The 2 nd yarn	No	No	No	No	No	No	No	No
The 3 ^{er} yarn	No	No	No	No	No	No	No	No
Number of specimens that have not been burned	1	1	1	1	1	1	1	1
Number of specimens that have been turned on but are turned off before the 1er yarn marker	0	0	0	0	0	0	0	0
Afterglow (s)	0	0	0	0	0	0	0	0
Length of the damaged area (mm)	122	134	124	123	142	126	124	132
Flame reaches the upper limit of the specimens	No	No	No	No	No	No	No	No
Flaming debris that ignites the filter paper	No	No	No	No	No	No	No	No
Observations	---							

12 WASHES CYCLES

Specimens N°	Warp				Weft			
	1	2	3	4	1	2	3	4
Average time of flame spread (s)								
From the beginning to 1 st yarn	0	0	0	0	0	0	0	0
From the beginning to 2 nd yarn	0	0	0	0	0	0	0	0
From the beginning to 3 ^{er} yarn	0	0	0	0	0	0	0	0
Number of specimens that burn to								
The 1 ^{er} yarn	No	No	No	No	No	No	No	No
The 2 nd yarn	No	No	No	No	No	No	No	No
The 3 ^{er} yarn	No	No	No	No	No	No	No	No
Number of specimens that have not been burned	1	1	1	1	1	1	1	1
Number of specimens that have been turned on but are turned off before the 1er yarn marker	0	0	0	0	0	0	0	0
Afterglow (s)	0	0	0	0	0	0	0	0
Length of the damaged area (mm)	115	88	130	131	138	130	138	135
Flame reaches the upper limit of the specimens	No	No	No	No	No	No	No	No
Flaming debris that ignites the filter paper	No	No	No	No	No	No	No	No
Observations	---							

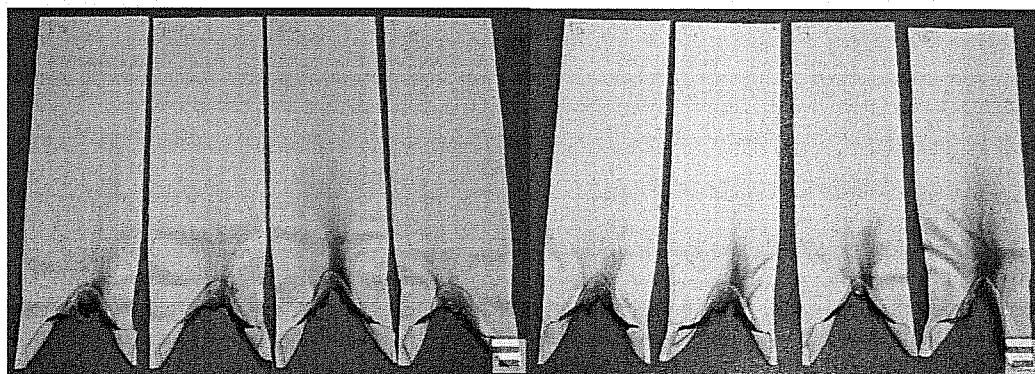
ANNEX Nº1: SPECIMEN TESTED

- TEXTILE AND TEXTILE PRODUCTS. BURNING BEHAVIOUR. CURTAINS AND DRAPES. DETAILED PROCEDURE TO DETERMINE THE IGNITABILITY OF VERTICALLY ORIENTED SPECIMENS (SMALL FLAME).
Standard UNE EN 1101:96/A1:05



- TEXTILE AND TEXTILE PRODUCTS. BURNING BEHAVIOUR . CURTAINS AND DRAPES. MEASUREMENT OF FLAME SPREAD VERTICALLY ORIENTED SPECIMENS WITH LARGE IGNITION SOURCE.
Standard UNE EN 13772:11

Original samples:



After washes:

