

Investigation report

Kobefab International BV

De Vest 62

NL-5555 XP Valkenswaard

Nederland

DELCOTEX

Delius Techtex GmbH & Co. KG

Vilsendorfer Str. 50

33739 Bielefeld

Germany

homepage: www.textillabor.eu

contact: Erik Radl

division: Laboratory

phone: +49 (0) 52 06 / 91 07 - 52

fax: +49 (0) 52 06 / 91 07 - 34

mail: detlef.vonseyfried@delcotex.de

date : 15.05.2019

Investigation report No. 19/1659

Order description:	<u>Burning behaviour - classification scheme according to DIN EN 13773 (2003-05)</u>
Test samples:	article: Zingana FR 100% PES FR Reference number: PO. no K2019-303500-004
Sampling:	by orderer
Orderer:	see address
Date of order:	17.04.2019
receipt of order:	26.04.2019
Date of testing:	14.05.2019
Number of pages:	5

The results are valid only for the tested object. The accreditation applies for the methods listed in the annex to the certificate D-PL-17323-01-00. Accredited test methods are underlined. The valuations and Interpretations in the investigation report are not subject to accreditation. Tests conducted through co-operation partners are marked with °. The content of this investigation report will not be passed to third persons without written approval of the orderer. The partial publication of the test report, as well as the usage for commercial process, is only allowed with a permission of the DELCOTEX Delius Techtex GmbH & Co. KG.

Remnants of test material will be destroyed after 3 months. Previously stated specifications / data sheets / certificates are only characters and no warranties. Also no warranty in case of durability will be overtaken. Finally our general delivery and payment conditions are valid (please see www.textillabor.eu).

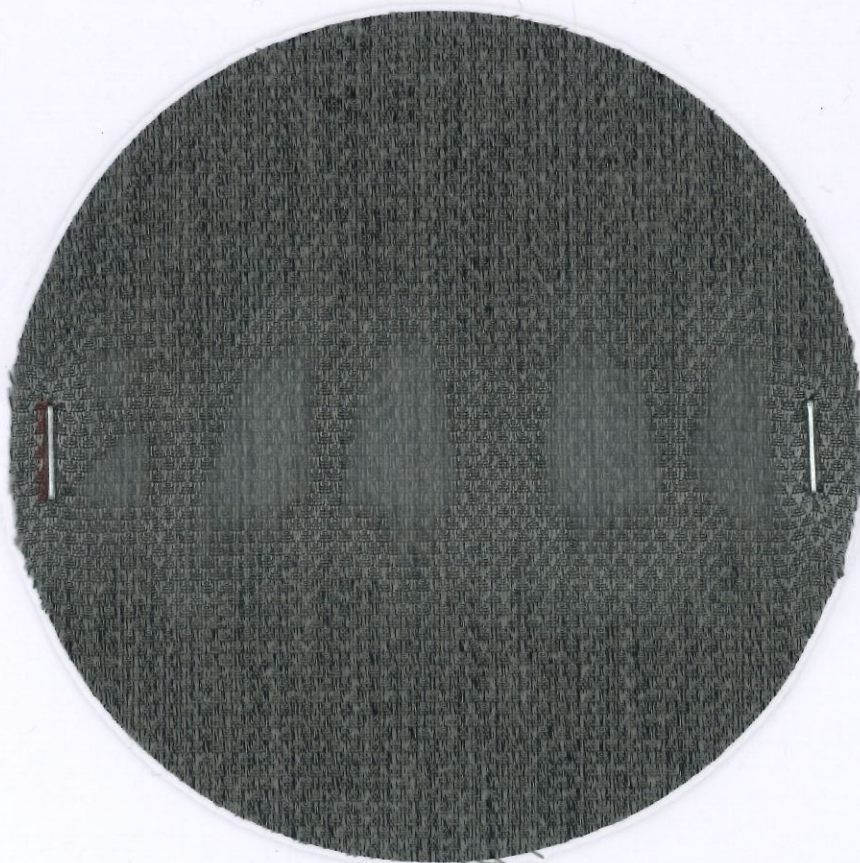
Investigation report No. – 19/1659

page 2 of 5

Description of test material

article: Zingana FR
Farbe/color: white
Material/material: 100% PES FR
Gewicht/weight: 164,34 g/m²
field of application: Curtains and drapes

original sample:



Investigation report No. – 19/1659

page 3 of 5

Instructions for performing

1. Method: Determination of ease of ignition of vertically oriented specimens according to DIN EN 1101 (2005-09)

2. Measuring conditions:

washing process: yes / 1x30°C
 sample size: length = 200 mm
 width = 80 mm
 room temperature: 20 +/- 2 °C
 humidity: 65 +/- 4 %

Test chamber conditions:

room temperature: 21,7°C (10 - 30°C)
 humidity: 42,5% (15 - 80%)
 air velocity: < 0,2 m/s
 gas: propane
 basic height of flame: 40 +/-2 mm
 Type of ignition: by the edge

Prüfergebnis – Test results

article: **Zingana FR 100% PES FR**

Flame application [s]	length			width		
	persistence of flame ≥ 5 [s] ja/nein - yes/no	Time of persistence of flame [s]	Ignition X / 0	persistence of flame ≥ 5 [s] ja/nein - yes/no	Time of persistence of flame [s]	Ignition X / 0
1	no	-	0	no	-	0
2	no	-	0	no	-	0
3	no	-	0	no	-	0
4	no	-	0	no	-	0
5	no	-	0	no	-	0
10	no	-	0	no	-	0
15	no	-	0	no	-	0
20	no	-	0	no	-	0
20	no	-	0	no	-	0
20	no	-	0	no	-	0
20	no	-	0	no	-	0
20	no	-	0	no	-	0
20	no	-	0	no	-	0

X= ignition; 0= no ignition; - = if not applicable

Investigation report No. – 19/1659

page 4 of 5

Angaben zur Durchführung - Instructions for performing

3. Method: Measurement of flame spread of vertically oriented specimens with large ignition source according to DIN EN 13772 (2003-05)

4. Measuring conditions:

washing process: yes / 1x30°C
sample size: length = 560 +/-2 mm
width = 170 +/-2 mm
room temperature: 20 +/- 2 °C
humidity: 65 +/- 4 %

Test chamber conditions:

room temperature: 22,3°C (10 - 30°C)
Rel. humidity: 38,9% (15 - 80%)
air velocity: < 0,2m/s
gas: propane
basic height of flame: 40 +/-2 mm
Type of ignition: by the edge
Time of heat radiation: 30 s
Flame application time: 10 s

Test results

article: **Zingana FR 100% PES FR**

		length				width			
sample		1	2	3	4	1	2	3	4
Face exposed to the radiator	R/L	R	L	L	L	R	L	L	L
1 st marker thread reached	yes/no	no	no	no	no	no	no	no	no
	in [s]	-	-	-	-	-	-	-	-
2 nd marker thread reached	yes/no	no	no	no	no	no	no	no	no
	in [s]	-	-	-	-	-	-	-	-
3 rd marker thread reached	yes/no	no	no	no	no	no	no	no	no
	in [s]	-	-	-	-	-	-	-	-
Flaming debris	yes/no	no	no	no	no	no	no	no	no
burner of filter paper	yes/no	no	no	no	no	no	no	no	no
vertical damage	[mm]	120	125	126	141	121	123	120	130

R= front side; L= back side; - = if not applicable

Investigation report No. – 19/1650

page 5 of 5

Instructions for performing

5. Method: Classification scheme according to DIN EN 13773 (2003-05)

Test results

article: Zingana FR 100% PES FR**classification**

The present test samples (see article) can be classified according to the **DIN EN 13773** into the following class:

Klasse - class:	1
------------------------	----------

Class	Ignitability	Flame spread
1	Non ignition according to EN 1101	1 st marker thread not severed, no flaming debris, according to EN 13772
2	Non ignition according to EN 1101	3 rd marker thread not severed, no flaming debris, according to EN 13772
3	Non ignition according to EN 1101	3 rd marker thread severed, and/or flaming debris, according to EN 13772
4	Ignition according to EN 1101	3 rd marker thread not severed, no flaming debris, according to EN 1102
5	Ignition according to EN 1101	3 rd marker thread severed, and/or flaming debris, according to EN 1102

Remark:

In combination with other materials (such as coatings, etc.), the fire-behavior can be influenced adversely, so that this classification is no longer valid.
The fire behavior of the material in combination with other materials to be tested separately.


i.A. Erik Radl
Laboratory

DELCO TEX Delius Techtex GmbH & Co. KG

Only the information contained in the signed test report is binding.