

TFI Report 21-001444-01

Fire behaviour

for the classification according to DIN 4102-1:1998

Customer

rohi stoffe GmbH
Schönlinderstr. 1
82538 Geretsried
GERMANY

Product

textile fabrics
CLEO

This report includes 3 pages and 1 annex.

Responsible at TFI

Florian Guttenbacher, M.Sc.

- test engineer -

Tel: +49 241 9679 171

f.guttenbacher@tfi-aachen.de

Aachen, 06 January 2022



Dr. Bayram Aslan

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This report only applies to the tested samples and has been established to the best of our knowledge. Only the entire report shall be reproduced. Under no circumstances, extracts shall be used. Furthermore, we apply the "General Terms and Conditions for the Execution of Contracts" of the TFI Aachen GmbH, also with regard to the order execution.

1 Transaction

Test order	Fire behaviour of building materials and building components according to DIN 4102-1:1998
Order date	10 November 2021
Your reference	N. Pavleska
Product designation	CLEO, fabric no: VA 846809
TFI sample number	2102215
Date of manufacture	not specified
Date of sample receipt	12 November 2021
Sampling performed by	Customer

2 Product Specification

Type of manufacture	woven (flat jacquard fabric*)
Type of surface	woven structure
Pattern	multicoloured, patterned
Colour	dark brown, beige, grey
Material	95 % wool, 5 % polyamide 6.6*
Type of delivery	broadloom
Total thickness [mm]	2.7
Total mass per unit area [g/m ²]	707

* customer information

3 Results

Ignitability of products subjected to direct impingement of flame according to DIN 4102-1:1998

Ignition	yes
Flame tip	≤ 150 mm
Burning droplets	no
Burning time	n.r.

Adhesion	-none-
Substrate	-none-

The measurement results are evaluated without consideration of the measurement uncertainty with reference to compliance with limit values, unless otherwise specified by the test standard.



The test results relate to the behaviour of the test specimens of a construction product under the particular conditions of the test; they are not intended to be the sole criterion for assessing the potential fire hazard of the construction product in use.

In respect of its fire behaviour, the tested building material is classified into the building product class **B 2**.

This test report is valid until 06 January 2027.

4 Annexes

Ignitability ^a

KB 21-001444-01

The annexes marked ^a are based on tests accredited in accordance with EN ISO/IEC 17025.

Annex KB - Ignitability

1 Transaction

Product designation CLEO
 TFI sample number 2102215
 Testing period 05 January 2022

2 Test Method / Requirements

DIN 4102-1:1998 Ignitability of products subjected to direct impingement of flame
 Substrate -none-
 Type of fixation freely suspended
 Water soaking procedure (BS 5852 Annex E) no
 Conditioning Conditioning to constant mass at a temperature of $(23\pm 2)^{\circ}\text{C}$ and a relative humidity of $(50\pm 5)\%$
 Type of ignition Surface ignition / edge ignition
 Ignition time [s] 15
 Deviation from the standard • 6 instead of 5 samples

3 Results

Parameter	Specimen no.					
	1	2	3	4	5	6
Type of ignition	Surface ignition					
Orientation to the direction of production	in production direction	in production direction	in production direction	cross production direction	cross production direction	cross production direction
Ignition of the specimen	no	no	no	no	no	no
Flame tip (moment [s])	< 150 mm (n.r.)	< 150 mm (n.r.)	< 150 mm (n.r.)	< 150 mm (n.r.)	< 150 mm (n.r.)	< 150 mm (n.r.)
Maximum flame height [mm] (moment [s])	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Burning droplets	no	no	no	no	no	no
Ignition of the filter paper	no	no	no	no	no	no

Observations: -none-

Parameter	Specimen no.					
	1	2	3	4	5	6
Type of ignition	Edge ignition					
Orientation to the direction of production	in production direction	in production direction	in production direction	cross production direction	cross production direction	cross production direction
Ignition of the specimen	yes*	yes*	yes*	yes*	yes*	yes*
Flame tip (moment [s])	< 150 mm (n.r.)	< 150 mm (n.r.)	< 150 mm (n.r.)	< 150 mm (n.r.)	< 150 mm (n.r.)	< 150 mm (n.r.)
Maximum flame height [mm] (moment [s])	n.r.	n.r.	n.r.	n.r.	n.r.	n.r.
Burning droplets	no	no	no	no	no	no
Ignition of the filter paper	no	no	no	no	no	no

Observations: * extinguished after 15 s