

# TFI Report 490968-03

## Fire behaviour

for the classification according to DIN 4102-1:1998

### Customer

rohi stoffe GmbH  
Schönlinderstr. 1  
82538 Geretsried  
GERMANY

### Product

textile fabrics  
SHAKE

This report includes 3 pages and 1 annex.

### Responsible at TFI

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**Aachen, 21 August 2019**



**Dr. Bayram Aslan**

The present document is provided with an advanced electronic signature.

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	26 July 2019
Your reference	S. Strößner
Product designation	SHAKE, fabric no: 291630
TFI sample number	19-07-0227
Date of manufacture	not specified
Date of sample receipt	31 July 2019
Sampling performed by	Customer

## 2 Product Specification

Type of manufacture	woven (flat jacquard fabric*)
Type of surface	woven structure
Pattern	multicoloured, patterned
Colour	black, white
Material	95 % virgin wool, 5 % polyamide*
Total mass per unit area [g/m²]	440*
	*customer information

## 3 Results

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

Ignition	no
Flame tip	≤ 150 mm
Burning droplets	no
Burning time	n.r.
Adhesion on substrate	-none-
Substrate	-none-

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 21 August 2024.



#### 4 Annexes

Ignitability <sup>a</sup>

KB 490968-03

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

# Annex KB - Ignitability

## 1 Transaction

Product designation                      SHAKE  
 TFI sample number                      19-07-0227  
 Testing period                              12 August 2019

## 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	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-