



Report VN736 135887.2

Test Report

Applicant

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Reference

Application

Testing and classification of the burning behaviour according to EN 13773.

Test material

„BOREALE“

Material used in testing was anonymized for laboratory purposes. A detailed sample list is contained in the report.

Issuing and Signatures

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Translation

Authorised for Institute
Ing. Hannes Vittek

A handwritten signature in black ink, appearing to read "Hannes Vittek", written over a horizontal dotted line.

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Order

Order reference

Date	Received	Order
21.12.2017	27.12.2017	Testing and classification of the burning behaviour according to EN 13773.

Sample

Nr.	Received	Sample Identification
1	27.12.2017	„BOREALE“

(Unless otherwise stated samples are provided by the customer.)

3. Findings / Tests performed

3.1 Description of the specimen

Description of the specimen according to DIN 60 000*

Tested sample: 1

Type of material (according to the applicant)	100% Polyester FR
Technological description	Double woven fabric

3.2 Washing procedure for textile testing

Test conditions

Tested sample: 1

According to EN ISO 6330

Standard washing machine: Wascator FOM 71 CLS

Washing procedure: 3M - mild washing 30 °C

Total mass of the specimen: 460 g

Load: 2 kg

Loading fabric: knitted 100 % polyester

Washing detergent: ECE 2 washing detergent

Water hardness: 0 ° dH

Number of washing processes: 1 and 12 washing processes

Drying procedure: line drying and afterwards ironing with 110°C

4.3 Determination of the ignitability of vertically oriented wood veneer (small flame)

Test Conditions

According to EN 1101 and EN 13773
 Conditioning climate: 20 ± 2 °C / 65 ± 2 % relative humidity
 Test climate: temperature: 24 °C, relative humidity: 28 %
 Specimen size: 200 mm x 80 mm
 Test gas: Propan
 Mode of ignition: Edge ignition
 Cleaning procedure: 1 washing process (see 2.2)

Test results

Tested sample: 1

<i>Longitudinal direction</i>			<i>Cross direction</i>		
Ignition time	Number of		Ignition time	Number of	
	Ignitions	no ignitions		Ignitions	no ignitions
1 s	0	1	1 s	0	1
2 s	0	1	2 s	0	1
3 s	0	1	3 s	0	1
4 s	0	1	4 s	0	1
5 s	0	1	5 s	0	1
10 s	0	1	10 s	0	1
15 s	0	1	15 s	0	1
20 s	0	5	20 s	0	5
Middle ignition time: > 20 s			Middle ignition time: > 20 s		
Minimum ignition time: > 20 s					

2.4 Determination of the flame spread of textile (referred to) yarn with large ignition source – supplied condition

Test conditions

According to EN 13 772

Conditioning climate: 20 ± 2 °C/ 65 ± 5 % relative humidity

Gas: Propan

Cleaning procedure: none, tested in supplied condition

Test results

Tested sample: 1

	exposed surface	1 st marker thread severed	3 rd marker thread severed	Time from start of inflammation to burning through of the		destroyed length	flaming debris
				1 st marker thread	3 rd marker thread		
Longitudinal direction							
Sample 1	right side	no	no	--	--	12 cm	no
Sample 2	back side	no	no	--	--	11 cm	no
Sample 3	right side	no	no	--	--	11,5 cm	no
Sample 4	right side	no	no	--	--	11,5 cm	no
Cross direction							
Sample 1	right side	no	no	--	--	11,5 cm	no
Sample 2	back side	no	no	--	--	11 cm	no
Sample 3	back side	no	no	--	--	11 cm	no
Sample 4	back side	no	no	--	--	11 cm	no

Precision

With an interlaboratory test with 16 textile samples in 11 European laboratories it showed up that the determined results are reproducible and repeatable.

Between all laboratories agreeing results showed up. The uncertainty of the measurement [u] corresponds therefore to the dispersion of the individual values of the respective examination.

2.3.2.2. Determination of the flame spread of vertically oriented specimens with lamp method
 2.3.2.2.2. After washing

Test conditions

According to EN 13 772

Conditioning climate: $20 \pm 2 \text{ °C}$ / $65 \pm 5 \text{ %}$ relative humidity

Gas: Propan

Cleaning procedure: 12 washing processes (see 2.2)

Test results

Tested sample: 1

	exposed surface	1 st marker thread severed	3 rd marker thread severed	Time from start of inflammation to burning through of the		destroyed length	flaming debris
				1 st marker thread	3 rd marker thread		
Longitudinal direction							
Sample 1	right side	no	no	--	--	10,5 cm	no
Sample 2	back side	no	no	--	--	11 cm	no
Sample 3	back side	no	no	--	--	11 cm	no
Sample 4	back side	no	no	--	--	11 cm	no
Cross direction							
Sample 1	right side	no	no	--	--	10,5 cm	no
Sample 2	back side	no	no	--	--	11 cm	no
Sample 3	back side	no	no	--	--	11 cm	no
Sample 4	back side	no	no	--	--	11 cm	no

Precision

With an interlaboratory test with 16 textil samples in 11 European laboratories it showed up that the determined results are reproducible and repeatable.

Between all laboratories agreeing results showed up. The uncertainty of the measurement [u] corresponds therefore to the dispersion of the individual values of the respective examination.

2.6 Determination of dropping behaviour – mounted condition

Test conditions

According to EN 13772

Type of specimen: curtain

Cleaning procedure: none, tested in supplied condition

Test results

Tested sample: 1

<i>Longitudinal direction</i>				<i>Cross direction</i>			
Sample	Dropping	Number of drops	Igniting dropping	Sample	Dropping	Number of drops	Igniting dropping
1	no	0	--	1	no	0	--
2	no	0	--	2	no	0	--
3	no	0	--	3	no	0	--
4	no	0	--	4	no	0	--

2.7 Determination of dropping behaviour – after washing

Test conditions

According to EN 13772

Type of specimen: curtain

Cleaning procedure: 12 washing processes (see 2.2)

Test results

Tested sample: 1

<i>Longitudinal direction</i>				<i>Cross direction</i>			
Sample	Dropping	Number of drops	Igniting dropping	Sample	Dropping	Number of drops	Igniting dropping
1	no	0	--	1	no	0	--
2	no	0	--	2	no	0	--
3	no	0	--	3	no	0	--
4	no	0	--	4	no	0	--

2 Classification

The tested sample „**BOREALE**“ can be classified in as:

Class 1 according to EN 13773
“nicht tropfend” according to EN 13773 *)

*) Not dropping behaviour corresponds in accordance with the former standard ÖNORM B 3800 part 1 point 6.1 to the drop education class Tr1- nicht tropfend.

1.1.1 Validity

1.1.1.1

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1.1.1.2

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1.1.1.3

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In this report individual non-accredited test procedures are marked with *.

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End of report