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Test Report VN736 202541.1

Application

Testing and classification of the burning behaviour according EN 13773.

Test Material

"Aerio"

The test material used for testing was made anonymous for laboratory purposes.
A detailed sample list is included in the document.

Issuing

Original Issuing, 12.05.2022
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OETI - Institut fuer Oekologie, Technik und Innovation GmbH

A handwritten signature in blue ink, appearing to read "Atena Adineh".

Atena Adineh

Customer Service Officer





1 Application

Date of Order	Scope of Order
02.05.2022	Description Of Specimen - Textile Fabrics - DIN 60000 Washing Procedure For Textile Testing - EN ISO 6330 (OZW12) Ignitability Vertical Orientated Specimen - EN 1101 Flame Spread of Vertical Oriented Specimen – supplied condition - EN 13772 Flame Spread of Vertical Oriented Specimen - after cleaning - EN 13772 Dropping Behaviour - supplied condition - EN 13772 Dropping Behaviour - after cleaning - EN 13772 Classification Of Burning Behaviour Of Curtains And Drapes - EN 13773

2 Samples

No.	Receipt	Sample Identification
1	02.05.2022	"Aerio"

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

3 Tests Performed / Results

*Description Of Specimen - Textile Fabrics DIN 60000

Tested sample: **#1 "Aerio"**

Type of fibre:	100% Polyester FR (declaration by the applicant)
Technological description:	woven fabric

According to the current version of the relevant European Directives, fibre materials with a mass percentage of < 2 % are not specified.

Washing Procedure For Textile Testing EN ISO 6330 (OZW12)

Tested sample: **#1 "Aerio"**

Standard washing machine	Wascator FOM 71MP- LAB
Washing procedure	3N - normal washing 30 °C
Temperature [°C]	60
Total mass of the specimen	120
Load	2 kg
Loading fabric	knitted 100% polyester fabric textured yarn
Washing detergent	ECE 2 washing detergent
Water hardness	0° dH
Number of washing processes	1 and 12
Drying procedure	Procedure A - Line drying

Ignitability Vertical Orientated Specimen EN 1101

 Tested sample: **#1 "Aerio"**

Test climate:

- Temperature [°C]: 23

- rel. Humidity [%]: 31

Specimen size [mm]: 200 x 80mm

Mode of ignition: Kantenbeflammung

Pretreatment: 1 washing cycle (see washing procedure)

Longitudinal direction			Cross direction		
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 [s]	>20	Middle ignition time [s]	>20
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Minimum ignition time [s]	>20
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Flame Spread of Vertical Oriented Specimen - supplied cond. EN 13772

Tested sample: #1 "Aerio"

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

Test gas: Propan

Pretreatment: None, test was carried out in supplied condition

Sample	exposed surface	1st marker thread severed	3rd marker thread severed	Time from start of inflammation to burning through of the		destroyed length [cm]	flaming debris
				1st marker thread	3rd marker thread		
				[s]	[s]		
Longitudinal direction							
1	right	no	no	--	--	12	no
2	left	no	no	--	--	11	no
3	right	no	no	--	--	12	no
4	right	no	no	--	--	13	no
Cross direction							
1	right	no	no	--	--	13	no
2	left	no	no	--	--	11	no
3	right	no	no	--	--	12	no
4	right	no	no	--	--	13	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.

Flame Spread of Vertical Oriented Specimen - after cleaning EN 13772

Tested sample: **#1 "Aerio"**

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

Test gas: Propan

Pretreatment: 12 washing cycles (see washing procedure)

Sample	exposed surface	1st marker thread severed	3rd marker thread severed	Time from start of inflammation to burning through of the		destroyed length [cm]	flaming debris
				1st marker thread	3rd marker thread		
				[s]	[s]		
Longitudinal direction							
1	right	no	no	--	--	12	no
2	left	no	no	--	--	10	no
3	right	no	no	--	--	11	no
4	right	no	no	--	--	13	no
Cross direction							
1	right	no	no	--	--	13	no
2	left	no	no	--	--	11	no
3	right	no	no	--	--	13	no
4	right	no	no	--	--	15	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.



Dropping Behaviour - supplied condition EN 13772

Tested sample: #1 "Aerio"

Pretreatment: None, test was carried out in supplied condition

Longitudinal direction			Cross direction		
Sample	Number of drops	Igniting dropping	Sample	Number of drops	Igniting dropping
1	0	--	1	0	--
2	0	--	2	0	--
3	0	--	3	0	--
4	0	--	4	0	--

Dropping Behaviour - after cleaning EN 13772

Tested sample: #1 "Aerio"

Pretreatment: 12 washing cycles (see washing procedure)

Longitudinal direction			Cross direction		
Sample	Number of drops	Igniting dropping	Sample	Number of drops	Igniting dropping
1	0	--	1	0	--
2	0	--	2	0	--
3	0	--	3	0	--
4	0	--	4	0	--

***Classification Of Burning Behaviour Of Curtains And Drapes EN 13773**

Tested sample: **#1 "Aerio, 100% Polyester FR"**

Determination of the ignitability according to EN 1101		no ignition
Determination of the flame spread of vertical orientated specimen according to EN 13772 - supplied condition	1st Markerthread	no break
	3rd Markerthread	no break
	Flaming debris	none
Determination of the flame spread of vertical orientated specimen according to EN 13772 - after cleaning	1st Markerthread	no break
	3rd Markerthread	no break
	Flaming debris	none
max. Number of drops falled down during EN 13772 test		0
Drops caused ignition of filter paper		no

Classification of burning behaviour

According to the classification criteria of EN 13773 the tested specimen can be classified as:

Class 1

Classification of dropping behaviour

The tested specimen can be classified as

not dropping

Not dropping behaviour corresponds in accordance with the former standard ÖNORM B 3800 part 1 point 6,1 to the drop class "Tr1- nicht tropfend"

4 Remarks

Period of Validity

There are no regulations concerning duration of validity in the individual test standards. As the results of the examinations refer only to the submitted and examined samples, the report is valid for these for an unlimited period. A period of validity specified as part of an expert evaluation is in the discretion of the consultant or OETI. The applicability of results and expert evaluations for materials not tested is in the responsibility of the applicant. Whereby an apportionment of results as well as any specified period of validity can only be done for identically constructed products and only as long as the product is produced unchanged. Possible national or international restrictions concerning the terms of usability of test and classification reports have to be considered; this is not the responsibility of the test laboratory.

Sample Material

Results of performed tests only refer to the sample material provided. Without explicit written other agreement testing is destructive and the sample material is transferred to the property of OETI, which is entitled to freely decide on storage and disposal.

Issuing

This test report is only issued as a PDF. Translations will be marked accordingly on the cover sheet.

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Statements of conformity are based on the specifications of the specified standard. The "simple acceptance rule" applies, that means the measurement uncertainty is stated for the statement of conformity, but not taken into account.

In this report individual non-accredited test procedures are marked with *. Nevertheless, the analysis was also carried out for these parameters at the same level of quality as for the accredited parameters.

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End of Report