Report VN736 126058.1
Test Report

Applicant

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Reference

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Application

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

Test material

"Dawn 2"

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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Authorised for Institute
Ing. Hannes Vittek

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Contents

1 Order

1.1 Chronology

Date	Received	Order
12.01.2017	16.01.2017	Testing and classification of the burning behaviour according to EN 13773.

1.2 Samples

Nr.	Received	Sample Identification
1	16.01.2017	"Dawn 2“

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

2 Findings / Tests performed

2.1 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	woven fabric

2.2 Washing procedure for textile testing

Test conditions

Tested sample: 1

According to EN ISO 6330
Standard washing machine: Wascator FOM 71 MP-LAB
Washing procedure: 6M – mild washing 60°C
Total mass of the specimen: 880 g
Load: 2 kg
Loading fabric: knitted 100 % polyester FR
Washing detergent: ECE 2 washing detergent
Water hardness: 0 ° dH
Number of washing processes: 1 and 12 washing process
Drying procedure: Procedure A - Line drying

2.3 Determination of the ignitability of vertically oriented specimen (small flame)

Test conditions

According to EN 1101 and EN 13773
Conditioning climate: 20 ± 2 °C / 65 ± 2 % relative humidity
Test climate: temperature: 23 °C, relative humidity: 22 %
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

Longitudinal direction			Cross direction		
Ignition time	Number of Ignitions	Number of no ignitions	Ignition time	Number of Ignitions	Number of 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 vertically oriented specimen with large ignition source – delivered condition

Test conditions

According to EN 13 772
Conditioning climate: 20 ± 2 °C/ 65 ± 2 % relative humidity
Gas: Propan
Cleaning procedure: none, tested in supplied condition

Test results

Tested sample: 1

	exposed surface	1st marker thread severed	3rd marker thread severed	Time from start of inflammation to burning through of the		destroyed length	flaming debris
				1st marker thread	3rd marker thread		
Longitudinal direction							
Sample 1	right side	no	no	--	--	9,5 cm	no
Sample 2	back side	no	no	--	--	8 cm	no
Sample 3	right side	no	no	--	--	11,2 cm	no
Sample 4	right side	no	no	--	--	12,5 cm	no
Cross direction							
Sample 1	right side	no	no	--	--	8 cm	no
Sample 2	back side	no	no	--	--	7,8 cm	no
Sample 3	right side	no	no	--	--	6,5 cm	no
Sample 4	right side	no	no	--	--	10,5 cm	no

Precision

With an intern laboratory 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.

2.5 Determination of the flame spread of vertically oriented specimen with large ignition source

Test conditions

According to EN 13 772
Conditioning climate: 20 ± 2 °C/ 65 ± 2 % relative humidity
Gas: Propan
Cleaning procedure: 12 washing process (see 2.2)

Test results

Tested sample: 1

	exposed surface	1st marker thread severed	3rd marker thread severed	Time from start of inflammation to burning through of the		destroyed length	flaming debris
				1st marker thread	3rd marker thread		
Longitudinal direction							
Sample 1	right side	no	no	--	--	6 cm	no
Sample 2	back side	no	no	--	--	7,2 cm	no
Sample 3	back side	no	no	--	--	6,2 cm	no
Sample 4	back side	no	no	--	--	8 cm	no
Cross direction							
Sample 1	right side	no	no	--	--	6,3 cm	no
Sample 2	back side	no	no	--	--	9 cm	no
Sample 3	back side	no	no	--	--	8,4 cm	no
Sample 4	back side	no	no	--	--	8,5 cm	no

Precision

With an intern laboratory 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.

2.6 Determination of dropping behaviour – curtains and drapes – delivered condition

Test conditions

According to EN 13772
Comment: The determination of dropping behaviour for curtains classified as class 1 or 2 ensures according EN 13 772.
Cleaning procedure: none, tested in supplied condition

Test results

Tested sample: 1

Longitudinal direction				Cross direction			
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 – curtains and drapes – after cleaning

Test conditions

According to EN 13772
Type of specimen: curtain
Comment: The determination of dropping behaviour for curtains classified as class 1 or 2 ensures according EN 13 772.
Cleaning procedure: 12 washing processes (see 2.2)

Test results

Tested sample: 1

Longitudinal direction				Cross direction			
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	--

3 Classification

The tested sample **“Dawn 2 “** 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. The determination of the dropping behaviour is done by the “5 drop-rule” according to agreement. In the case of falling down of less than 5 drops there is no risk involved. Therefore the sample is classified as Tropfenbildungsklasse Tr1 – nicht tropfend.

4 Remarks

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 the ÖTI.

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 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 ÖTI, which is entitled to freely decide on storage and disposal.

Issuance

The valid first issue is done in paper and has single-handed signatures. For reference purposes and filing an unsigned electronic duplicate can be delivered in pdf format. Duplicates and translations will be marked accordingly on the cover sheet.

Quality management, Accreditation and Notification

All tests and services are performed under a quality management system according to EN ISO/IEC 17025 respectively EN ISO/IEC 17065.

The ÖTI is accredited as Testing Laboratory and Certification Body for products. It also is a Notified Body for several directives with the registration number 0534 (see http://ec.europa.eu/enterprise/newapproach/nando/). Accreditation as Testing Laboratory was provided by Akkreditierung Austria (bmwfw). The scope of accreditation is listed on www.bmwfw.gv.at/akkreditierung.

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

According to the decree on the use of the accreditation mark (“AkkZV”) the accreditation mark is only to be used by the accredited Conformity Assessment Body.

Application of the registration number of the Notified Body: As to personal protective equipment (PPE) the requirements of PSA-SV § 10, BGBl. Nr. 596/1994 as amended and article 13 of the Directive 89/686/EEC have to be kept. With construction products the application is only permitted within the declaration of performance for CE-marking.

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End of report