



Report 74880 Test Report



Applicant

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Reference

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Application

Determination of burning behaviour and dropping behaviour according to EN 13773.

Test Material

"Divina Family"

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
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1 Order

1.1 Chronology

<i>Date</i>	<i>Received</i>	<i>Order</i>
2014-10-02	2014-10-02	Determination of burning behaviour and dropping behaviour according to EN 13773.

1.2 Samples

<i>No.</i>	<i>Received</i>	<i>Sample Identification</i>
1	2014-10-02 ⁽¹⁾	"Divina Family"

(1) Samples provided by the customer. (2) Sample drawn by ÖTI.



2 Findings / Tests performed

2.1 Description of the specimen

Description of the specimen according to DIN 60 000

Test results

Tested sample: 1

Type of fibre according to DIN 60 001 part 1	100 % Wool (declaration by the applicant)
Technological description	non-woven fabric

2.2 Dry cleaning procedure

Test conditions

Tested sample: 1

According to EN ISO 3175 part 2 accr.)

Performed by: TZU

Cleaning procedure: Process for sensitive material

Solvent: Tetrachlorethene

Max. temperature of the solvent: 30 °C

Max. drying temperature: 60°C - normal material

Number of cleaning processes: 1 and 6

Finishing treatment procedure: none



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

Test conditions

According to EN 1101 ^{accr.)} and EN 13773 ^{accr.)}
Conditioning climate: 20 ± 2 °C / 65 ± 2 % relative humidity
Test climate: temperature: 23 °C, relative humidity: 38 %
Specimen size: 200 mm x 80 mm
Test gas: Propan
Mode of ignition: Edge ignition
Cleaning procedure: 1 cleaning process (see 2.2)

Test results

Tested sample: 1

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

Test conditions

According to EN 13 772 accr.)

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

Gas: Propan

Cleaning procedure: The examination took place in the delivered 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	--	--	11 cm	no
Sample 2	back side	no	no	--	--	10 cm	no
Sample 3	right side	no	no	--	--	11 cm	no
Sample 4	right side	no	no	--	--	12 cm	no
Cross direction							
Sample 1	right side	no	no	--	--	12 cm	no
Sample 2	back side	no	no	--	--	10 cm	no
Sample 3	right side	no	no	--	--	12 cm	no
Sample 4	right side	no	no	--	--	11 cm	no

Precision

With an interlaboratory test with 16 textilen 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 – after cleaning

Test conditions

According to EN 13 772 ^{accr.})

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

Gas: Propan

Cleaning procedure: 6 cleaning 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	back side	no	no	--	--	14 cm	no
Sample 2	right side	no	no	--	--	13 cm	no
Sample 3	back side	no	no	--	--	11 cm	no
Sample 4	back side	no	no	--	--	13 cm	no
Cross direction							
Sample 1	back side	no	no	--	--	13 cm	no
Sample 2	right side	no	no	--	--	12 cm	no
Sample 3	back side	no	no	--	--	11 cm	no
Sample 4	back side	no	no	--	--	14 cm	no

Precision

With an interlaboratory test with 16 textilen 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 ^{accr.})

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: The examination took place in the delivered 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 ^{accr.})

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: 6 cleaning 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 Evaluation / Classification

3.1 Classification of burning behaviour of curtains and drapes

Evaluation conditions

In the following the testing methods and test results are aforementioned, after which the classification of the burning behaviour takes place:

- ♦ Determination of the ignitability of vertically oriented specimen (small flame) according EN 1101 (see 2.3) no ignition
- ♦ Determination of the flame spread of vertically oriented specimen with large ignition source according EN 13 772 – delivered condition (see 2.4) 1st marker thread not severed
3rd marker thread not severed
no flaming debris
- ♦ Determination of the flame spread of vertically oriented specimen with large ignition source according EN 13 772 – after cleaning (see 2.5) 1st marker thread not severed
3rd marker thread not severed
no flaming debris

Classification

According the conditions of classification of the EN 13 773 ^{accr.}) the tested specimen "**Divina Family**" can be classified into

Class 1

3.2 Classification of dropping behaviour

Evaluation conditions

According to EN 13772 ^{accr.})

Explanation: For curtains of the class 1 or 2 the determination of dropping behaviour will be performed in accordance with EN 13772. The classification takes place in corresponding interpretation of the former test and classification guideline as follows

- ♦ Tropfenbildungsklasse: nicht tropfend no sample dripped on the filter paper
- ♦ Tropfenbildungsklasse: tropfend At least one of the flamed samples dripping off on the filter paper. But the dripped material did not burn further
- ♦ Tropfenbildungsklasse: zündendtropfend At least one of the flamed samples dripping off on the filter paper and the dripped material burns further.

Classification

According the former test and classification guideline the tested specimen "**Divina Family**" can be classified as follows

nicht tropfend

Note: 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



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.

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