



Report VN736 138226.1 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

„Drops Acoustic 177“

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

Issuing and Signatures

Number of pages contained: 9

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Authorised for Institute
Ing. Hannes Vittek

A handwritten signature in blue ink, appearing to read 'Hannes Vittek', positioned above a horizontal dotted line.

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1 Order

1.1 Chronology

| Date | Received | Order |
|------------|------------|--|
| 01.02.2018 | 02.02.2018 | Testing and classification of the burning behaviour according to EN 13773. |

1.2 Samples

| Nr. | Received | Sample Identification |
|-----|------------|-----------------------|
| 1 | 02.02.2018 | „Drops Acoustic 177“ |

(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 |
| 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 CLS

Washing procedure: 6N - normal washing 60 °C

Total mass of the specimen: 940 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: 31 %

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 | | 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 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 | 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 | -- | -- | 7,5 cm | no |
| Sample 2 | back side | no | no | -- | -- | 9 cm | no |
| Sample 3 | back side | no | no | -- | -- | 9 cm | no |
| Sample 4 | back side | no | no | -- | -- | 8 cm | no |
| Cross direction | | | | | | | |
| Sample 1 | right side | no | no | -- | -- | 8 cm | no |
| Sample 2 | back side | no | no | -- | -- | 9 cm | no |
| Sample 3 | back side | no | no | -- | -- | 8 cm | no |
| Sample 4 | back side | no | no | -- | -- | 9,5cm | 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 – after cleaning

Test conditions

According to EN 13 772

Conditioning climate: 20 ± 2 °C/ 65 ± 2 % 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 | -- | -- | 8,5 cm | no |
| Sample 2 | back side | no | no | -- | -- | 10 cm | no |
| Sample 3 | back side | no | no | -- | -- | 9,5 cm | no |
| Sample 4 | back side | no | no | -- | -- | 9 cm | no |
| Cross direction | | | | | | | |
| Sample 1 | right side | no | no | -- | -- | 8,5 cm | no |
| Sample 2 | back side | no | no | -- | -- | 9,5 cm | no |
| Sample 3 | back side | no | no | -- | -- | 10 cm | no |
| Sample 4 | back side | no | no | -- | -- | 10 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

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: 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 „Drops Acoustic 177“ can be classified, 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.

4 Remarks

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End of report

