



Report VN736 138100.2

Test Report

Applicant

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Reference

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Application

Determination of burning behaviour according to ÖNORM B 3825, smoke emission according to ÖNORM A 3800 part 1 as well as ignitability according to EN 1021 part 1 and part 2.

Test material

„Velluto“, „A3295-A3298 sopran“

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

Date	Received	Order
30.01.2018	31.01.2018	Determination of burning behaviour according to ÖNORM B 3825, smoke emission according ÖNORM A 3800 part 1 as well as ignitability according to EN 1021 part 1 and part 2.

1.2 Samples

Nr.	Received	Sample Identification
1	31.01.2018	„A3295-A3298 sopran“

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

1.3 Information given by the applicant

As per information given by the applicant the tested samples „Velluto“ and „A3295-A3298 sopran“ have the same construction, they differ only in the colour.

2 Findings / Tests performed

2.1 Description of the specimen

Description of the specimen according to DIN 60 000*

Test results

Tested sample: 1

Material composition (declaration by the applicant)	100% Polyester
Technological description	Composite material consisting of knitted pile fabric, foam layer and laminated woven fabric

2.1 Determination of burning behaviour of upholstery fabrics

Test conditions

According to ÖNORM B 3825

Arrangement of upholstery: Arrangement A: free chosen upholstery

Kind of upholstery: foam: high resilient foam , properties: Burning behaviour: "schwerbrennbar" according to ÖNORM A 3800-1 , Designation: RF 5560, Producer: Eurofoam

Number of test specimens: Longitudinal direction 3 / Cross direction 3

Test results

Tested sample: 1

Specimen	Burning-time [s]	After-flame-time [s]	After-glow-time [s]	Flame spread rate [mm/s]	self-extinguishing before reaching the mark
Longitudinal direction					
1	none	0	0	--	yes
2	none	0	0	--	yes
3	none	0	0	--	yes
Cross direction					
1	none	0	0	--	yes
2	none	0	0	--	yes
3	none	0	0	--	yes

Secondary effects of burning:

Behaviour of the covering fabric: self-extinguished of the covering fabric

Behaviour of the upholstery: self-extinguished of the upholstery

Opinion

According to ÖNORM B 3825 the tested specimen can be classified as
"schwerbrennbar gemäß ÖNORM B 3825"

Comments:

This test is a compound test at which the furniture fabric will always be tested combined with upholstery. Classification, therefore, relates only to the described arrangement of specimens and foam used.

2.2 Determination of smoke emission

Test conditions

Standard: ÖNORM A 3800 part 1/4.2

Arrangement of the specimen: loose

Test results

Tested sample: 1

smoke emission [%]					
Test 1	Test 2	Test 3	Test 4	Test 5	Mean Value
60	59	50	26	53	50

Classification

The tested specimen can be classified according to ÖNORM A 3800-1, item 4.2.1 as:

Qualmbildungsklasse Q1 - schwachqualmend

2.3 Assessment of the ignitability of upholstered furniture, Part 1: Ignition source: smouldering cigarette

Test conditions

According to: EN 1021-1

Kind of upholstery: manufactured upholstery

Sample composition

- Outer layer (upholstery fabric): Sample 1

- Filling (stuffing): Polyurethane foam „RF5560“, Producer: Eurofoam,

Burning behaviour: "schwerbrennbar" according to ÖNORM A 3800-1

Pretreatment: According to the applicant, the test sample was not chemically treated to improve the ignitability; the test was therefore carried out in supplied condition, without pretreatment (water impregnation method) according EN 1021-1, Annex D.

Test results

Tested sample: 1

Inflammation through progressing smouldering	test	
	1	2
specimen displays escalating smouldering combustion behaviour so that it is unsafe to continue the test and forcible extinction is required	no	no
specimen smoulders until it is essentially consumed within the duration of the test	no	no
specimen smoulders to the extremities of the specimen, i.e. to either side or to/through the full thickness of the specimen	no	no
specimen smoulders longer than 60 min after ignition of the cigarette	no	no
Specimen shows evidence of active smouldering on final examination	no	no

Inflammation through burning	test	
	1	2
appearance of flames	no	no

Overall result: No ignition

Note

The test results mentioned above relate only to the ignitability of the combination of upholstery composites under the particular conditions of test stated; they are not intended as a means of assessing the full potential fire hazard of the materials or products in use.

2.4 Assessment of the ignitability of upholstered furniture, Part 2: Ignition source: Gasflame comparable to a matchstick

Test conditions

According to: EN 1021-2

Kind of upholstery: manufactured upholstery

Sample composition

- Outer layer (upholstery fabric): Sample 1

- Filling (stuffing): Polyurethane foam „RF5560“, Producer: Eurofoam,

Burning behaviour: "schwerbrennbar" according to ÖNORM A 3800-1

Pretreatment: According to the applicant, the test sample was not chemically treated to improve the ignitability; the test was therefore carried out in supplied condition, without pretreatment (water impregnation method) according EN 1021-2, Annex D.

Test results

Tested sample: 1

Inflammation through progressing smouldering	test		
	1	2	3
specimen displays escalating smouldering combustion behaviour so that it is unsafe to continue the test and forcible extinction is required	no	no	no
specimen smoulders until it is essentially consumed within the duration of the test	no	no	no
specimen smoulders to the extremities of the specimen, i.e. to either side or to/through the full thickness of the specimen	no	no	no
specimen smoulders longer than 60 min after ignition of the cigarette	no	no	no
Specimen shows evidence of active smouldering on final examination	no	no	no

Inflammation through burning	test		
	1	2	3
specimen displays escalating combustion behaviour so that it is unsafe to continue the test and forcible extinction is required	no	no	no
specimen burns until it is essentially consumed within the duration of the test	no	no	no
specimen on which any flame front reaches the extremities of the specimen other than the top of the vertical part of the test specimen, or passes through the full thickness of the specimen within the duration of the test	no	no	no
specimen that continues to flame for more than 120 s after removal of the burner tube	no	no	no

Overall result: No ignition

Note

The test results mentioned above relate only to the ignitability of the combination of upholstery composites under the particular conditions of test stated; they are not intended as a means of assessing the full potential fire hazard of the materials or products in use.

3 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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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

This issue is a rewriting of report VN736 138100.1 dated 06.02.2018.

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

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

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