Report VN720 123821.2
Test Report

Applicant

EGETAEPPER A/S
Industrivej Nord 25
7400-Herning
Denmark

Reference

Lenette Ormstrup

Application

Classification according to EN 1307 as well as castor chair suitability, suitability for use on stairs, resistance to fraying and static electrical propensity.

Test material

"Rawline Scala ECT350"

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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1 Order

1.1 Chronology

Date	Received	Order
26.10.2016	27.10.2016	Classification according to EN 1307 as well as castor chair suitability, suitability for use on stairs, resistance to fraying and static electrical propensity.

1.2 Samples

Nr.	Received	Sample Identification
1	27.10.2016	"Rawline Scala ECT350"

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

2 Summarized test report

According to EN 1307:2014 Annex B

Identification, basic information	
Productname	"Rawline Scala ECT350"
Date	19.12.2016
Manufacturer / User	EGETAEPPER A/S
Type of face side	Flat (reference according to B.2.2: A2)
Manufacturing procedure	Woven (reference according to B.2.1: M1)
Backing	Textile backing (non-woven) (reference according to B.2.4: S10)
Type of floor covering	Textile floor covering without pile
Colouration	Multi-coloured unpatterned (reference according to B.2.5: C3)
Dimensions	tiles
Fibres of pile	100 % Polyamide (according to the applicant)
Total mass	2421 g/m²
Total thickness	5,0 mm
Vettermann-drum test, short time testing	5,0
Vettermann-drum test, long time testing	5,0
Basic requirements	**fulfilled**

Use class	
Abrasion resistance	Class 33
General structural integrity	Class 33
Classification of change in appearance	Class 33
Level of use classification	**Class 33**
Comfort-Class	**LC1**

Additional properties	
Castor chair suitability	suitable for intensive use
Stair suitability	suitable for commercial use
Fraying resistance	resistant to fraying
Body voltage from the walk test	- 0,9 kV
Classification according to EN 14041:2004	antistatic
Vertical resistance	$3{,}1 \times 10^{11}$
Dimensional stability	max. change – 0,1%

Specific informations for tiles	
Basic requirements	fulfilled
Dimensions of tiles	480 x 480 cm
Total mass of each tile	0,560 kg
Total weight per unit area	2421 kg/m²
Side length max. deviation	< 0,1 %
Squareness and straightness of edges	< 0,04%
Dimensional stability	Max. elongation + 0,1% Max. shrinkage – 0,1%
Curling / doming	0 mm
Damage at cut edge	none
Judgement	Suitable for removable adhered and permanent adhered tiles

3 Findings / Tests performed

Tested sample 1

DESCRIPTION OF SPECIMEN textile floor coverings EN 1307	
Number of specimen	1
Manufacturing procedure	flat
Structure of face side	woven
Coloration of face side	multicoloured unpatterned
Type of backing	textile backing (non-woven)
Type of fibres at face side *)	100 % Polyamide
Description according to standard	pile carpet according to EN 1307
	*) According to the current version of the relevant European Directives, fiber materials with a mass percentage of < 2 % are not specified.

MASS PER UNIT AREA of textile floor coverings ISO 8543		
Number of specimen		4
Climatisation		
- Temperature	[°C]	20
- Rel. air humidity	[%]	65
Mass per unit area		
- Mean value	[g/m²]	2421
- Coefficient of variation	[%]	1,1
- Confidence interval (P = 95 %) abs. width	[g/m²]	41

Tested sample		1

THICKNESS of textile floor coverings ISO 1765		
Number of specimen		4
Climatisation		
- Temperature	[°C]	20
- Air humidity	[%]	65
Thickness		
- Mean value	[mm]	5,0
- Coefficient of variation	[%]	1,7
- Confidence interval (P = 95 %) abs. width	[mm]	0,2
DIMENSIONAL CHANGES AND DISTORTION OUT OF PLANE EN 986		
Number of specimen		3
1. Treatment		
- Measurement 1 - length	[%]	-0,1
- Measurement 2 - length	[%]	-0,1
- Measurement 3 - length	[%]	-0,1
- Mean value - length	[%]	-0,1
- Measurement 1 - cross	[%]	±0,0
- Measurement 2 - cross	[%]	±0,0
- Measurement 3 - cross	[%]	±0,0
- Mean value - cross	[%]	±0,0
2. Treatment		
- Measurement 1 - length	[%]	+0,1
- Measurement 2 - length	[%]	±0,0
- Measurement 3 - length	[%]	+0,1
- Mean value - length	[%]	+0,1
- Measurement 1 - cross	[%]	±0,0
- Measurement 2 - cross	[%]	±0,0
- Measurement 3 - cross	[%]	±0,0
- Mean value - cross	[%]	±0,0
3. Treatment		
- Measurement 1 - length	[%]	±0,0
- Measurement 2 - length	[%]	-0,1
- Measurement 3 - length	[%]	-0,1
- Mean value - length	[%]	-0,1
- Measurement 1 - cross	[%]	±0,0
- Measurement 2 - cross	[%]	±0,0
- Measurement 3 - cross	[%]	±0,0
- Mean value - cross	[%]	±0,0
4. Treatment		
- Measurement 1 - length	[%]	±0,0
- Measurement 2 - length	[%]	-0,1
- Measurement 3 - length	[%]	-0,1
- Mean value - length	[%]	-0,1
- Measurement 1 - cross	[%]	±0,0
- Measurement 2 - cross	[%]	±0,0
- Measurement 3 - cross	[%]	±0,0
- Mean value - cross	[%]	±0,0
Maximum disortion out of plane after treatment		
- Specimen 1	[mm]	0
- Specimen 2	[mm]	0
- Specimen 3	[mm]	0
Mean value	[mm]	0

Tested sample	1

BASIC REQUIREMENTS of textile floor coverings EN 1307	
Basic requirements - Textile floor covering without pile	
Colour fastness	Conformity has to be declared by the manufacturer for each colour
Dimensional change	
- Shrinkage [%]	-0,1 %
- Elongation [%]	+ 0,1 %
Haariness / Pilling [grade]	≥ 2,5
Judgement	
Basic requirements [fullfilled / not fullfilled]	fullfilled
CHANGES IN APPERANCE - drum test ISO 10361	
Number of specimen	2
Number of revolutions	
After 5 000 revolutions	
- Index of apperance change (Median)	5,0
- Index of colour change (Median)	5
- Main reasons for change	--
- Index after colour correction (Median)	5,0
- Index after colour correction (Mean value)	5,0
After 20 000 revolutions	
- Index of apperance change (Median)	5,0
- Index of colour change (Median)	--
- Main reasons for change	5
- Index after colour correction (Median)	5,0
- Index after colour correction (Mean value)	4,8
Damages by the treatment	none
CLASSIFICATION of textile floor coverings EN 1307	
Classification of floor coverings without pile	1
Abrasion resistance [g/m²]	no mass loss
General structural integrity	
- 10 000 cycles	no damage
- 25 000 cycles	no damage
Index of appearance change	
- Short time test	5,0
- Long time test	5,0
Classification of the abrasion resistance	33
Classification of the general structural integrity	33
Classification of change in apperance	33
Classification of overall use class	33
Classification of luxury rating class	LC 1

CASTOR CHAIR SUITABILITY of textile floor coverings EN 985 A		
Number of specimen		2
Mounting of specimen		double sided adhesive tape „SIGAN 2“ (UZIN UTZ AG)
Castors		single wheels, type H
Test duration 5000 revolutions		
- Change of attribute		colour
- Index of colour change	[Grade]	3
- Index of appearance change	[Grade]	3,0
Test duration 25000 revolutions		
- Change of attribute		colour
- Index of colour change	[Grade]	2-3
- Index of appearance change	[Grade]	2,5
Castor chair index		2,8
Damages by the treatment		none
Suitable for castor chairs		suitable for intensive use
SUITABILITY FOR USE ON STAIRS EN 1963 B		
Number of specimen		4
Median of appearance change in the edge area	[Grade]	low appearance change
Judgement		suitable for commercial use
RESISTANCE TO FRAYING EN 1814		
Number of specimen		4
Kind of test sample		tiles
Desciption of cut edge after treatment		
- Delamination		not occurred
- Fraying		not occurred
- Tuft loss / sprouting		not occurred
- Thread puller		not occurred
- Release of fibers from the pile material		Occurred (fibers from pile)
Judgement		resistant to fraying
STATIC ELECTRICAL PROPENSITY - Walking test ISO 6356		
Number of specimen		1
Testing climate		
- Temperature	[°C]	23
- Air humidity	[%]	25
Base plate		Isolating rubber mat on metal plate
Sole-material		XS-664P Neolite
Pretreatment		none
Body-Voltage - supplied condition		
- Test 1	[kV]	-1,2
- Test 2	[kV]	-0,6
- Test 3	[kV]	-0,9
- Mean value	[kV]	-0,9
- Judgement		The tested sample in supplied condition can be classified as antistatic according EN 14041:2004.

ELECTRICAL RESISTANCES of textile floor coverings ISO 10965		
Number of specimen		3
Testing climate		23
- Temperature	[°C]	25
- Air humidity	[%]	500
Measuring voltage	[V]	
Vertical resistance		
- Specimen 1 - 1st measurement	[Ohm]	$4{,}0 \times 10^{11}$
- Specimen 1 - 2nd measurement	[Ohm]	$3{,}0 \times 10^{11}$
- Specimen 2 - 1st measurement	[Ohm]	$2{,}0 \times 10^{11}$
- Specimen 2 - 2nd measurement	[Ohm]	$4{,}0 \times 10^{11}$
- Specimen 3 - 1st measurement	[Ohm]	$2{,}0 \times 10^{11}$
- Specimen 3 - 2nd measurement	[Ohm]	$5{,}0 \times 10^{11}$
- Geom. Mean value	[Ohm]	$3{,}1 \times 10^{11}$
MASS PER UNIT AREA of textile floor coverings ISO 8543		
Number of specimen		4
Climatisation		
- Temperature	[°C]	20
- Rel. air humidity	[%]	65
Total mass of individual tile		
- Mean value	[kg]	0,560
- Coefficient of variation	[%]	0,0
- Confidence interval (P = 95 %) abs. width	[kg]	0,000
SIDE LENGTH, SQUARENESS, STRAIGHTNESS EN 994 carpet tiles		
Number of specimen		5
Nominal dimension		
- Length	[mm]	480
- Width	[mm]	480
Determination of dimensions - length		
- Mean length	[mm]	480,4
- Min. average length	[mm]	480,2
- Max. average length	[mm]	480,6
- Difference between the smallest and the largest average length	[mm]	0,4
- Max. deviation from mean length	[%]	< 0,1
- Max. deviation from nominal dimension	[%]	0,1
Determination of dimensions - width		
- Mean length	[mm]	480,2
- Min. average length	[mm]	480,1
- Max. average length	[mm]	480,2
- Difference between the smallest and the largest average length	[mm]	0,1
- Max. deviation from mean length	[%]	< 0,1
- Max. deviation from nominal dimension	[%]	0,0
Squareness and staightness		
- Max. deviation	[mm]	< 0,2
- Max. deviation	[%]	< 0,04

CLASSIFICATION OF PILE CARPETS, ADDITIONAL REQUIREMENTS FOR CARPET TILES EN 1307	fulfilled
Basic requirements	
Dimensions of tiles	480 x 480 cm
Total mass of each tile	0,560 kg
Total weight per unit area	2,421 kg/m²
Side length max. deviation	≤ 0,1 %
Squareness and straightness of edges	≤ 0,04 %
Dimensional stability	Max. elongation + 0,1% Max. shrinkage – 0,1%
Curling / doming	0 mm
Damage at cut edge	none
Judgement	The submitted sample fulfils the additional requirements for removable adhered and permanent adhered carpet tiles according EN 1307, Annex A .

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

This issue is a rewriting of report VN720 123821.1, dated 2016-11-28.

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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