



Report VN720 137252.1 Test Report

Applicant

EGETAEPER A/S
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Denmark

Reference

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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

“ege tuft 650 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

A handwritten signature in blue ink, appearing to be 'Hannes Vittek', written over a dotted horizontal line.

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1 Order

1.1 Chronology

Date	Received	Order
19.12.2017	23.01.2018	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	23.01.2018	“ege tuft 650 ECT350”

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

2 Findings / Tests performed

2.1 Summarized test report

According to EN 1307 Annex B

Identification, basic information	
Productname	“ege tuft 650 ECT350”
Date	12.02.2018
Manufacturer / User	EGETAEPER A/S
Type of face side	Loop pile (reference according to B.2.2: A4)
Primary backing	non-woven
Manufacturing procedure	Tufted (reference according to B.2.1: M5)
Backing	Textile backing (non-woven) (reference according to B.2.4: S10)
Type of floor covering	Pile carpet
Colouration	multicoloured unpatterned (reference according to B.2.5: C3)
Dimensions	tiles
Fibres of pile	100% Polyamide (according to the applicant)
Total mass	2916 g/m ²
Pile mass above the substrate	374 g/m ²
Total thickness	7,8 mm
Pile height	2,8 mm
Surface pile density	0,134 g/cm ³
Number of tufts or loops	1906 /dm ²
Vettermann-drum test, short time testing	5,0
Vettermann-drum test, long time testing	4,5
Basic requirements	fulfilled
Use class	
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 intensive use
Fraying resistance	resistant to fraying
Body voltage from the walk test	-1,4 kV
Classification according to EN 14041	antistatic

Requirements for tiles	
Total mass of each tile	0,675 kg
Total weight per unit area	2,92 kg/m ²
Dimensions of tiles	480 x 480 mm
Squareness and straightness	< 0,04 %
Dimensional stability	± 0,0 %
Distortion out of plane	0 mm
Damages on cut edge	no damage
Tile suitability	removable adhered and permanent adhered

DESCRIPTION OF SPECIMEN textile floor coverings EN 1307	
Number of specimen	1
Manufacturing procedure	tufted
Base structure of face side	loop pile
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
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/m ²]	2916
- Coefficient of variation [%]	1,8
- Confidence interval (P = 95 %) abs. width [g/m ²]	85
MASS PER UNIT AREA of textile floor coverings ISO 8543	
Number of specimen	4
Climatisation	
- Temperature [°C]	20
- Rel. air humidity [%]	65
Pile mass per unit area	
- Mean value [g/m ²]	374
- Coefficient of variation [%]	2,4
- Confidence interval (P = 95 %) abs. width [g/m ²]	14
THICKNESS of textile floor coverings ISO 1765	
Number of specimen	4
Climatisation	
- Temperature [°C]	20
- Air humidity [%]	65
Thickness	
- Mean value [mm]	7,8
- Coefficient of variation [%]	2,7
- Confidence interval (P = 95 %) abs. width [mm]	0,4
THICKNESS WEAR LAYER of textile floor coverings ISO 1766	
Number of specimen	4
Test atmosphere	
- Temperature [°C]	20
- Air humidity [%]	65
Shearing methode	Sharp pointed knife
Thickness of wear layer	
- Mean value [mm]	2,8
- Coefficient of variation [%]	3,4
- Confidence interval (P = 95 %) abs. width [mm]	0,2

PILE DENSITY ISO 8543 Number of specimen Pile material Density of pile material [g/cm ³] Mass of pile per unit area [g/cm ²] Thickness of above the substrate pile [mm] Surface pile density [g/cm ³] Relative surface pile density [%]	 4 100% Polyamide 1,14 374 2,8 0,134 11,7
NUMBER OF TUFTS OR LOOPS ISO 1763 Number of specimen Number of tufts or loops / 10 cm - in length direction - in cross direction Number of tufts or loops per dm ² Number of tufts or loops per m ²	 4 39,7 48,0 1906 190600
FIBREBIND EN 1963 C Number of specimen Duration [turns] Appearance change compared to photostandard	 4 400 better
BASIC REQUIREMENTS of textile floor coverings EN 1307 Basic requirements - Floor covering with Pile (Loop pile) Colour fastness Fibre bind < 80 % natural fibres Loop pile - Fuzzing Judgement Basic requirements	 1 Conformity has to be declared by the manufacturer for each colour better than photographs fulfilled

CHANGES IN APPEARANCE - drum test ISO 10361 Number of specimen Used scale Number of revolutions After 5 000 revolutions - Index of appearance change (Median) - Index of colour change (Median) - Main reasons for change After 20 000 revolutions - Index of appearance change (Median) - Index of colour change (Median) - Main reasons for change Damages by the treatment	2 ISO loop (ISO – A) 5,0 5 -- 4,5 4-5 -- none
CLASSIFICATION of textile floor coverings EN 1307 Classification of pile floor coverings Index of appearance change - Short time test - Long time test Classification of change in appearance Classification of overall use class Classification of luxury rating class	1 5,0 4,5 33 33 LC1
MASS PER UNIT AREA of textile floor coverings ISO 8543 Number of specimen Climatisation - Temperature [°C] - Rel. air humidity [%] Total mass of individual tile - Mean value [kg] - Coefficient of variation [%] - Confidence interval (P = 95 %) abs. width [kg]	4 20 65 0,675 1,5 0,016

SIDE LENGTH, SQUARENESS, STRAIGHTNESS EN 994		
Number of specimen		5
Nominal dimension		
- Length	[mm]	480
- Width	[mm]	480
Determination of dimensions - length		
- Mean length	[mm]	480,0
- Min. average length	[mm]	480,0
- Max. average length	[mm]	480,0
- Difference between the smallest and the largest average length	[mm]	0,0
- Max. deviation from mean length	[%]	< 0,1
- Max. deviation from nominal dimension	[%]	0,0
Determination of dimensions - width		
- Mean length	[mm]	480,0
- Min. average length	[mm]	480,0
- Max. average length	[mm]	480,1
- 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 straightness		
- Max. deviation	[mm]	< 0,20
- Max. deviation	[%]	< 0,04
RESISTANCE TO FRAYING EN 1814		
Number of specimen		4
Kind of test sample		Sheets material
Description 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		not occurred
Judgement		resistant to fraying
ADDITIONAL REQUIREMENTS for carpet tiles EN 1307		
Basic requirements		fulfilled
Dimensions of tiles [mm]		480 x 480
Total mass of each tile	[kg]	0,675
Total weight per unit area	[kg/m ²]	2,92
Side length max. deviation	[%]	< 0,1
Squareness and straightness of edges	[%]	< 0,04
Dimensional stability	[%]	± 0,0
Curling / doming	[mm]	0
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 .

<p>CASTOR CHAIR SUITABILITY of textile floor coverings EN 985 A, Assesment ISO 9405</p> <p>Number of specimen Mounting of specimen Castors Test duration 5000 revolutions Change of attribute [Grade] Index of colour change [Grade] Index of appearance change [Grade] Test duration 25000 revolutions Change of attribute [Grade] Index of colour change [Grade] Index of appearance change [Grade] Castor chair index Damages by the treatment Suitable for castor chairs</p>	<p>2 double sided adhesive tape ISO loop (ISO – A) single wheels, type H</p> <p>structure 3,5 3-4</p> <p>structure 3,0 3 3,4 none suitable for intensive use</p>
<p>SUITABILITY FOR USE ON STAIRS EN 1963 B</p> <p>Number of specimen Median of appearance change in the edge area [Grade] Judgement</p>	<p>4 low appearance change suitable for intensive use</p>
<p>STATIC ELECTRICAL PROPENSITY - Walking test ISO 6356</p> <p>Number of specimen Testing climate - Temperature [°C] - Air humidity [%] Base plate Sole-material Pretreatment Body-Voltage - supplied condition - Test 1 [kV] - Test 2 [kV] - Test 3 [kV] - Mean value [kV] - Judgement</p>	<p>1</p> <p>23 25 Isolating rubbermat on metal plate XS-664P Neolite none</p> <p>-1,7 -1,4 -1,2 -1,4 antistatic</p>

DIMENSIONAL CHANGES AND DISTORTION OUT OF PLANE EN 986		
Number of specimen		3
1. Treatment		
- Measurement 1 - length	[%]	±0,0
- Measurement 2 - length	[%]	±0,0
- Measurement 3 - length	[%]	±0,0
- Mean value - length	[%]	±0,0
- 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	[%]	±0,0
- Measurement 2 - length	[%]	±0,0
- Measurement 3 - length	[%]	±0,0
- Mean value - length	[%]	±0,0
- 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	[%]	±0,0
- Measurement 3 - length	[%]	±0,0
- Mean value - length	[%]	±0,0
- 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	[%]	±0,0
- Measurement 3 - length	[%]	±0,0
- Mean value - length	[%]	±0,0
- 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

3 Remarks

Validity

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