



Report VNIF 081634.1 Test Report



Applicant

EGETAEPPEL A/S
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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

"Una Crystalline 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 purple ink, reading "i.v. Zauböck", written over a dotted line.

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1 Order

1.1 Chronology

Date	Received	Order
08.10.2015	12.10.2015	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	12.10.2015	"Una Crystalline ECT350"
2	01.12.2015	"Una Crystalline ECT350" (subsequent delivery to sample 1)

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

2 Summarized test report

According to EN 1307:2014 (a) Annex B

Identification, basic information	
Productname	"Una Crystalline ECT350"
Date	2016-02-11
Manufacturer / User	EGETAEPPEL A/S
Type of face side	Loop pile (reference according to B.2.2: A4)
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
Base	Non-woven fabric (reference according to B.2.3: P3)
Colouration	Multi-coloured unpatterned (reference according to B.2.5: C3)
Dimensions	tiles
Fibres of pile	100 % Polyamide (according to the applicant)
Total mass	3041 g/m ²
Pile mass above the substrate	862 g/m ²
Total thickness	9,7 mm
Pile height	5,9 mm
Surface pile density	0,146 g/cm ³
Number of tufts or loops	2491 /dm ²
Vettermann-drum test, short time testing	4,0
Vettermann-drum test, long time testing	3,5
Basic requirements	fulfilled
Use class	
Classification of change in appearance	Class 33
Level of use classification	Class 33
Comfort-Class	LC4
Additional properties	
Castor chair suitability	suitable for intensive use
Fraying resistance	resistant to fraying
Body voltage from the walk test	- 0,9 kV
Classification according to EN 14041:2004	antistatic
Dimensional stability	maximal change – 0,3%
Specific informations for tiles	
Basic requirements	fulfilled
Dimensions of tiles	498 x 498 cm
Total mass of each tile	0,700 kg
Total weight per unit area	3041 kg/m ²
Tile type	suitable for permanent adhered tiles

3 Findings / Tests performed

Tested sample

1

DESCRIPTION OF SPECIMEN textile floor coverings EN 1307	
Number of specimen	1
Manufacturing procedure	tufted
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 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 (a)	
Number of specimen	4
Climatisation	
- Temperature [°C]	20
- Rel. air humidity [%]	65
Mass per unit area	
- Mean value [g/m ²]	3041
- Coefficient of variation [%]	0,8
- Confidence interval (P = 95 %) abs. width [g/m ²]	38
MASS PER UNIT AREA of textile floor coverings ISO 8543 (a)	
Number of specimen	4
Climatisation	
- Temperature [°C]	20
- Rel. air humidity [%]	65
Pile mass per unit area	
- Mean value [g/m ²]	862
- Coefficient of variation [%]	2,6
- Confidence interval (P = 95 %) abs. width [g/m ²]	36

Tested sample

1

THICKNESS of textile floor coverings ISO 1765 (a)	
Number of specimen	4
Climatisation	
- Temperature [°C]	20
- Air humidity [%]	65
Thickness	
- Mean value [mm]	9,7
- Coefficient of variation [%]	1,0
- Confidence interval (P = 95 %) abs. width [mm]	0,2
THICKNESS WEAR LAYER of textile floor coverings ISO 1766 (a)	
Number of specimen	4
Test atmosphere	
- Temperature [°C]	20
- Air humidity [%]	65
Shearing methode	Sharp pointed knife
Thickness of wear layer	
- Mean value [mm]	5,9
- Coefficient of variation [%]	0,8
- Confidence interval (P = 95 %) abs. width [mm]	0,1
PILE DENSITY ISO 8543 (a)	
Number of specimen	4
Pile material	100% Polyamide
Density of pile material [g/cm ³]	1,14
Mass of pile per unit area [g/cm ²]	862
Thickness of above the substrate pile [mm]	5,9
Surface pile density [g/cm ³]	0,146
Relative surface pile density [%]	12,8
NUMBER OF TUFTS OR LOOPS ISO 1763 (a)	
Number of specimen	4
Number of tufts or loops / 10 cm	
- in length direction	48,0
- in cross direction	51,9
Number of tufts or loops per dm ²	2491
Number of tufts or loops per m ²	249100
FIBREBIND EN 1963 C (a)	
Number of specimen	4
Duration [turns]	400
Appearance change compared to photostandard	better

Tested sample

1

<p>BASIC REQUIREMENTS of textile floor coverings EN 1307</p> <p>Basic requirements - Floor covering with Pile (Loop pile) Colour fastness</p> <p>Fibre bind < 80 % natural fibres Loop pile - Fuzzing Judgement Basic requirements</p>	<p>1</p> <p>Conformity has to be declared by the manufacturer for each colour</p> <p>better than photographs</p> <p>fulfilled</p>
<p>CHANGES IN APPEARANCE - drum test ISO 10361 (a)</p> <p>Number of specimen Number of revolutions After 5 000 revolutions</p> <ul style="list-style-type: none"> - Index of appearance change (Median) - Index of colour change (Median) - Main reasons for change - Index after colour correction (Median) - Index after colour correction (Mean value) <p>After 20 000 revolutions</p> <ul style="list-style-type: none"> - Index of appearance change (Median) - Index of colour change (Median) - Main reasons for change - Index after colour correction (Median) - Index after colour correction (Mean value) <p>Damages by the treatment</p>	<p>2</p> <p>4,0</p> <p>4-5</p> <p>structure</p> <p>4,0</p> <p>4,2</p> <p>3,5</p> <p>4-5</p> <p>structure</p> <p>3,5</p> <p>3,7</p> <p>none</p>
<p>CLASSIFICATION of textile floor coverings EN 1307</p> <p>Classification of pile floor coverings Index of appearance change</p> <ul style="list-style-type: none"> - Short time test - Long time test <p>Classification of change in appearance Classification of overall use class Classification of luxury rating class</p>	<p>1</p> <p>4,0</p> <p>3,5</p> <p>33</p> <p>33</p> <p>LC4</p>

Tested sample

1

<p>MASS PER UNIT AREA of textile floor coverings ISO 8543 (a)</p> <p>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]</p>	<p>4 20 65 0,700 0 0,0</p>
<p>CASTOR CHAIR SUITABILITY of textile floor coverings EN 985 A (a)</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 „SIGAN 2“ (UZIN UTZ AG) single wheels, type H colour, structure 3 3,0 colour, structure 2-3 2,5 2,9 none suitable for intensive use</p>
<p>RESISTANCE TO FRAYING EN 1814 (a)</p> <p>Number of specimen Kind of test sample Description of cut edge after treatment - Delamination - Fraying - Tuft loss / sprouting - Thread puller - Release of fibers from the pile material Judgement</p>	<p>4 tiles not accurate not accurate not accurate not accurate not accurate resistant to fraying</p>

Tested sample

1

STATIC ELECTRICAL PROPENSITY - Walking test ISO 6356 (a)		
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]	-0,5
- Test 2	[kV]	-0,9
- Test 3	[kV]	-1,2
- Mean value	[kV]	-0,9
- Judgement		The tested sample in supplied condition can be classified as antistatic according EN 14041:2004.
SIDE LENGTH, SQUARENESS, STRAIGHTNESS EN 994 (a) carpet tiles		
Number of specimen		5
Nominal dimension		
- Length	[mm]	498
- Width	[mm]	498
Determination of dimensions - length		
- Mean length	[mm]	498,1
- Min. average length	[mm]	498,0
- Max. average length	[mm]	498,2
- Difference between the smallest and the largest average length	[mm]	0,2
- Max. deviation from mean length	[%]	< 0,1
- Max. deviation from nominal dimension	[%]	0,0
Determination of dimensions - width		
- Mean length	[mm]	498,0
- Min. average length	[mm]	497,8
- Max. average length	[mm]	498,2
- Difference between the smallest and the largest average length	[mm]	0,4
- Max. deviation from mean length	[%]	< 0,1
- Max. deviation from nominal dimension	[%]	0,0
Squareness and straightness		
- Max. deviation	[mm]	< 0,20
- Max. deviation	[%]	< 0,04

Tested sample

2

DIMENSIONAL CHANGES AND DISTORTION OUT OF PLANE EN 986 (a)		
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	[%]	-0,1
- 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
3. Treatment		
- Measurement 1 - length	[%]	-0,3
- Measurement 2 - length	[%]	-0,3
- Measurement 3 - length	[%]	-0,3
- Mean value - length	[%]	-0,3
- Measurement 1 - cross	[%]	±0,0
- Measurement 2 - cross	[%]	-0,1
- Measurement 3 - cross	[%]	-0,1
- Mean value - cross	[%]	-0,1
4. Treatment		
- Measurement 1 - length	[%]	-0,3
- Measurement 2 - length	[%]	-0,3
- Measurement 3 - length	[%]	-0,3
- Mean value - length	[%]	-0,3
- Measurement 1 - cross	[%]	±0,0
- Measurement 2 - cross	[%]	-0,1
- Measurement 3 - cross	[%]	-0,1
- Mean value - cross	[%]	-0,1
Maximum distortion out of plane after treatment		
- Specimen 1	[mm]	0
- Specimen 2	[mm]	0
- Specimen 3	[mm]	0

4 Remarks

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