



Report VNIF 081084.1 Test Report



Applicant

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Denmark

Reference

Mrs. Ormstrup

Application

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

Test material

"Epoca Knit WT"

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 read "Vitte", positioned above a horizontal dotted line.

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1 Order

1.1 Chronology

Date	Received	Order
13.07.2015	16.07.2015	Classification according to EN 1307 as well as determination of castor chair suitability, suitability for use on stairs, resistance to fraying, static electrical propensity and vertical resistance.

1.2 Samples

Nr.	Received	Sample Identification
1	16.07.2015	"Epoca Knit WT"

(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	"Epoca Knit WT"
Date	2015-08-07
Manufacturer / User	EGETAEPER A/S
Type of face side	Structured (reference according to B.2.2: A4)
Manufacturing procedure	Woven (reference according to B.2.1: M1)
Backing	Textile backing (reference according to B.2.4: S10)
Type of floor covering	Textile floor covering without pile
Colouration	plain (reference according to B.2.5: C1)
Dimensions	rolls
Fibres of pile	100 % Polyamide (according to the applicant)
Total mass	1913 g/m ²
Total thickness	3,9 mm
Number of tufts or loops	1114 /dm ²
Vettermann-drum test, short time testing	4,5
Vettermann-drum test, long time testing	4,0
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 commercial use
Fraying resistance	resistant to fraying
Body voltage from the walk test	- 1,6 kV
Classification according to EN 14041:2004	antistatic
Vertical resistance	1,7 x10 ¹¹ Ω
Dimensional stability	maximal change – 0,4%

3 Findings / Tests performed

<p>DESCRIPTION OF SPECIMEN textile floor coverings EN 1307</p> <p>Number of specimen Manufacturing procedure Structure of face side Coloration of face side Type of backing Type of fibres at face side *) Description according to standard</p>	<p>1 woven flat plain textile backing 100 % Polyamide capret without pile according to EN 1307</p> <p>*) According to the current version of the relevant European Directives, fiber materials with a mass percentage of < 2 % are not specified.</p>
<p>MASS PER UNIT AREA of egetextile floor coverings ISO 8543 (a)</p> <p>Number of specimen Climatisation - Temperature [°C] - Rel. air humidity [%] Mass per unit area - Mean value [g/m²] - Coefficient of variation [%] - Confidence interval (P = 95 %) abs. width [g/m²]</p>	<p>4 20 65 1913 0,8 25</p>
<p>THICKNESS of textile floor coverings ISO 1765 (a)</p> <p>Number of specimen Climatisation - Temperature [°C] - Air humidity [%] Thickness - Mean value [mm] - Coefficient of variation [%] - Confidence interval (P = 95 %) abs. width [mm]</p>	<p>4 20 65 3,9 1,3 0,1</p>
<p>NUMBER OF TUFTS OR LOOPS ISO 1763 (a)</p> <p>Number of specimen Number of tufts or loops / 10 cm - in length direction - in cross direction Number of tufts or loops per dm² Number of tufts or loops per m²</p>	<p>4 40,2 27,7 1114 111400</p>

DIMENSIONAL CHANGES AND DISTORTION OUT OF PLANE ISO/PAS 17984 (a)		
Number of specimen		3
1. Treatment		
- Measurement 1 - length	[%]	+0,1
- 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	[%]	-0,1
- Mean value - cross	[%]	±0,0
2. Treatment		
- Measurement 1 - length	[%]	+0,1
- 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	[%]	-0,2
- Measurement 3 - length	[%]	-0,1
- Mean value - length	[%]	-0,1
- Measurement 1 - cross	[%]	-0,4
- Measurement 2 - cross	[%]	-0,4
- Measurement 3 - cross	[%]	-0,4
- Mean value - cross	[%]	-0,4
4. Treatment		
- Measurement 1 - length	[%]	-0,1
- Measurement 2 - length	[%]	-0,1
- Measurement 3 - length	[%]	-0,1
- Mean value - length	[%]	-0,1
- Measurement 1 - cross	[%]	-0,4
- Measurement 2 - cross	[%]	-0,4
- Measurement 3 - cross	[%]	-0,4
- Mean value - cross	[%]	-0,4
Distortion out of plane		none
FIBREBIND - PILLING EN 1963 D (a)		
Number of specimen		4
Duration	[turns]	200
Median	[grade]	3,5

<p>BASIC REQUIREMENTS of textile floor coverings EN 1307</p> <p>Basic requirements - Floor covering without pile Colour fastness</p> <p>Dimensional change</p> <p>- Shrinkage [%]</p> <p>- Elongation [%]</p> <p>- Haairiness / Pilling [grade]</p> <p>Judgement</p> <p>Basic requirements[fullfilled / not fullfilled]</p>	<p>1</p> <p>Conformity has to be declared by the manufacturer for each colour</p> <p>-0,4</p> <p>±0,0</p> <p>3,5</p> <p>fullfilled</p>
<p>MASS LOSS - Lisson pedal wheel methode EN 1963 A (a)</p> <p>Number of specimen</p> <p>Mass loss per unit area</p> <p>- Mean value [g/m²]</p> <p>- Coefficient of variation [%]</p> <p>- Confidence intercall (P= 95 %) absolte width [g/m²]</p> <p>Tretradindex</p>	<p>4</p> <p>1</p> <p>35</p> <p>1</p> <p>--</p>
<p>GENERAL STRUCTURAL INTEGRITY EN 985 C (a)</p> <p>Number of specimen</p> <p>Sample fixation</p> <p>Wheels</p> <p>Damages by treatment</p> <p>- after 10 000 cycles</p> <p>- after 25 000 cycles</p>	<p>2</p> <p>double sided adhesive tape „SIGAN 2“ (UZIN UTZ AG) single wheels, type H</p> <p>none</p> <p>none</p>
<p>CHANGES IN APPERANCE - drum test ISO 10361 (a)</p> <p>Number of specimen</p> <p>Number of revolutions</p> <p>After 5 000 revolutions</p> <p>- Index of apperance change (Median)</p> <p>- Index of colour change (Median)</p> <p>- Main reasons for change</p> <p>- Index after colour correction (Median)</p> <p>- Index after colour correction (Mean value)</p> <p>After 20 000 revolutions</p> <p>- Index of apperance change (Median)</p> <p>- Index of colour change (Median)</p> <p>- Main reasons for change</p> <p>- Index after colour correction (Median)</p> <p>- Index after colour correction (Mean value)</p> <p>Damages by the treatment</p>	<p>2</p> <p>4,5</p> <p>4-5</p> <p>structure</p> <p>4,5</p> <p>4,6</p> <p>4,0</p> <p>4</p> <p>colour</p> <p>4,0</p> <p>4,1</p> <p>none</p>

<p>CLASSIFICATION of textile floorcoverings EN 1307</p> <p>Classification of floor coverings without pile</p> <p>Abrasion resistance [g/m²]</p> <p>General structural integrity</p> <ul style="list-style-type: none"> - 10 000 cycles - 25 000 cycles <p>Index of appearance change</p> <ul style="list-style-type: none"> - Short time test - Long time test <p>Classification of the abrasion resistance</p> <p>Classification of the general structural integrity</p> <p>Classification of change in appearance</p> <p>Classification of overall use class</p> <p>Classification of luxury rating class</p>	<p>1</p> <p>1</p> <p>no damage</p> <p>no damage</p> <p>4,5</p> <p>4,0</p> <p>33</p> <p>33</p> <p>33</p> <p>33</p> <p>LC1</p>
<p>CASTOR CHAIR SUITABILITY of textile floor coverings EN 985 A (a)</p> <p>Number of specimen</p> <p>Mounting of specimen</p> <p>Castors</p> <p>Test duration 5000 revolutions</p> <p>Change of attribute</p> <p>Index of colour change [Grade]</p> <p>Index of appearance change [Grade]</p> <p>Test duration 25000 revolutions</p> <p>Change of attribute</p> <p>Index of colour change [Grade]</p> <p>Index of appearance change [Grade]</p> <p>Castor chair index</p> <p>Damages by the treatment</p> <p>Suitable for castor chairs</p>	<p>2</p> <p>double sided adhesive tape „SIGAN 2“ (UZIN UTZ AG)</p> <p>single wheels, type H</p> <p>colour</p> <p>3</p> <p>3,0</p> <p>colour</p> <p>2-3</p> <p>2,5</p> <p>2,9</p> <p>none</p> <p>suitable for intensive use</p>
<p>SUITABILITY FOR USE ON STAIRS EN 1963 B (a)</p> <p>Number of specimen</p> <p>Median of appearance change in the edge area [Grade]</p> <p>Judgement</p>	<p>4</p> <p>low appearance change</p> <p>suitable for commercial use</p>
<p>RESISTANCE TO FRAYING EN 1814 (a)</p> <p>Number of specimen</p> <p>Kind of test sample</p> <p>Description of cut edge after treatment</p> <ul style="list-style-type: none"> - Delamination - Fraying - Tuft loss / sprouting - Thread puller - Release of fibers from the pile material <p>Judgement</p>	<p>4</p> <p>rolls</p> <p>not accurate</p> <p>not accurate</p> <p>not accurate</p> <p>not accurate</p> <p>not accurate</p> <p>resistant to fraying</p>

<p>STATIC ELECTRICAL PROPENSITY - Walking test ISO 6356 (a)</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</p> <p>Isolating rubber mat on metal plate XS-664P Neolite none</p> <p>-1,4 -1,6 -1,7 -1,6</p> <p>The tested sample in supplied condition can be classified as antistatic according EN 14041:2004.</p>
<p>ELECTRICAL RESISTANCES of textile floor coverings ISO 10965</p> <p>Number of specimen Testing climate - Temperature [°C] - Air humidity [%] Measuring voltage [V] Vertical resistance - Specimen 1 - 1st measurement [Ω] - Specimen 1 - 2nd measurement [Ω] - Specimen 2 - 1st measurement [Ω] - Specimen 2 - 2nd measurement [Ω] - Specimen 3 - 1st measurement [Ω] - Specimen 3 - 2nd measurement [Ω] - Geom. Mean value [Ω]</p>	<p>3</p> <p>23 25 500</p> <p>2,0 x10¹¹ 2,0 x10¹¹ 1,5 x10¹¹ 1,8 x10¹¹ 1,5 x10¹¹ 1,5 x10¹¹ 1,7 x10¹¹</p>

4 Remarks

Validity

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End of report