



Ege Carpets A/S
Industrivej Nord 25
7400 Herning
Denmark

Your Reference
Customer Number 40201
Contact Person Ormstrup Lenette
E-Mail lo@ege.dk

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Test Report VN720 194227.1

Application

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

Test Material

"Eco Rustic ECT 350"

The test material used for testing was made anonymous for laboratory purposes.
A detailed sample list is included in the document.

Issuing

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OETI - Institute for Ecology, Technology and Innovation GmbH

A handwritten signature in blue ink, appearing to read "Atena Adineh".

Atena Adineh

Customer Service Officer



OETI - Institut fuer Oekologie, Technik und Innovation GmbH | Siebenhirtenstrasse 12A, Objekt 8, 1230 Vienna, Austria
tel +43 1 5442543-0 | e-mail office@oeti.biz | www.oeti.biz | FN 326826 b | VAT No. ATU65149029 | EORI ATEOS1000015903
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1 Application

Date of Order	Scope of Order
29.10.2021	Description Of Specimen - Textile Floor Coverings - EN 1307 Summarized test report - EN 1307 Annex B Mass Per Unit Area - ISO 8543 Textile Floor Coverings Thickness Of Textile Floor Coverings - ISO 1765 Dimension Stability And Curling After Exposure To Heat And Water - ISO 2551 / EN 986 Fibrebind - Pilling - EN ISO 12951, Test D (EN 1963, Test D) Basic requirements - EN 1307 - Textile floor covering without pile General Structural Integrity - EN 985 Method C Changes in Appearance - Drum Test - ISO 10361 Method A / EN ISO 9405 Mass Loss - Lisson Pedal Wheel Methode - EN ISO 12951, Test A (EN 1963, Test A) Classification - EN 1307 - Textile floor covering without pile Total Mass Of The Single Tile - ISO 8543 Side Length, Squareness, Straightness - EN 994 - Textile Floorcoverings Resistance To Fraying - EN ISO 10833 Specific requirements of tiles - EN 1307 Annex A Castor Chair Suitability Of Textile Floor Coverings - EN 985 Method A / ISO 9405 Suitability For Use On Stairs - EN ISO 12951, Test B (EN 1963, Test A+B) Horizontal Resistance - ISO 10965 Vertical Resistance - ISO 10965 Static Electrical Propensity - Walking Test - ISO 6356

2 Samples

No.	Receipt	Sample Identification
1	11.11.2021	"Eco Rustic ECT 350"

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

3 Tests Performed / Results

#1 "Eco Rustic ECT 350"

Summarized test report EN 1307 Annex B *		
• Identification, basic information		
Type of face side		Flat (according to B.2.2: A2)
Manufacturing procedure		Woven (according to B.2.1: M1)
Backing		Textile Backing (non-woven) (according to B.2.4: S10)
Type of floor covering		Textile floor covering without pile
Colouration		multicolored unpatterned (according to B.2.5: C3)
Dimensions		Tiles
Fibers of pile		100% Polyamide (according to the applicant)
• Construction		
Total mass	[g/m ²]	2141
Total thickness	[mm]	4.6
• Appearance change		
Vettermann-drum test, short time testing		5.0
Vettermann-drum test, long time testing		4.5
• Classification according EN 1307		
Basic requirements		fulfilled
Change in appearance		Class 33
Use class		Class 33
Luxury-Class		LC 1
• Additional properties		
Castor chair suitability		suitable for intensive use
Stair suitability		suitable for commercial use
Fraying resistance		resistance to fraying
Body-Voltage, walking test	[kV]	-1.6
Assessment according to EN 14041:2007		antistatic
Vertical resistance	[Ω]	1.1 x 10 ¹²
Horizontal resistance	[Ω]	1.1 x 10 ¹²
Dimensional stability (max. change)	[%]	-0.2

<p>Specific requirements of tiles EN 1307 Annex A *</p> <ul style="list-style-type: none"> • Total mass of individual tile [kg] 0.500 • Total weight per unit area [kg/m²] 2 • Dimensions of tiles [mm] 480 x 480 • Max. deviation from mean length [%] <0,1 • Squareness and straightness [%] <0,04 • Dimensional stability (max. change) [%] - 0,2 / ± 0,0 • Distortion out of plane [mm] 0 • Tile suitability removeable adhered and permanent adhered • Damage at cut edge no damage 	
<p>Description Of Specimen - Textile Floor Coverings EN 1307 *</p> <ul style="list-style-type: none"> • Manufacturing procedure Woven • Structure of face side Flat • Colouration of the surface Multicoloured unpatterned • Type of backing Textile backing (non-woven) • Type of fibres at face side 100% Polyamide • Dimensions Tiles • Description according to standard Textile floor covering without pile 	
<p>Mass Per Unit Area ISO 8543 Textile Floor Coverings</p> <ul style="list-style-type: none"> • Number of specimen 4 • Conditioning <ul style="list-style-type: none"> Temperature [°C] 20 Air humidity [%] 65 • Total mass <ul style="list-style-type: none"> Mean value [g/m²] 2.141 Coefficient of variation [%] 0.8 Confidence interval (95%) abs. width [g/m²] 29 • Measurement uncertainty [%] 0.15 	
<p>Thickness Of Textile Floor Coverings ISO 1765</p> <ul style="list-style-type: none"> • Number of specimen 4 • Conditioning <ul style="list-style-type: none"> Temperature [°C] 20 Air humidity [%] 65 • Thickness <ul style="list-style-type: none"> Mean value [mm] 4.6 Coefficient of variation [%] 1.0 Confidence interval (95%) abs. width [mm] 0.1 • Measurement uncertainty [%] 0.74 	

Total Mass Of The Single Tile		
ISO 8543		
• Number of specimen		4
• Conditioning		
Temperature	[°C]	20
Air humidity	[%]	65
• Total mass of tiles		
Mean value	[kg]	0.500
Coefficient of variation	[%]	0.0
Confidence interval (95%) abs. width	[kg]	0.000
• Measurement uncertainty	[%]	0.15

Dimension Stability And Curling After Exposure To Heat And Water ISO 2551 / EN 986		
• Number of specimen		4
• Deviation from standard		None
• 1. Treatment - 2 hours storage (drying) at 60°C		
1. Measurement length direction	[%]	- 0.1
2. Measurement length direction	[%]	- 0.1
3. Measurement length direction	[%]	- 0.1
Mean value length direction	[%]	- 0.1
1. Measurement cross direction	[%]	- 0.1
2. Measurement cross direction	[%]	± 0.0
3. Measurement cross direction	[%]	± 0.0
Mean value cross direction	[%]	± 0.0
• 2. Treatment - 2 hours storage in water at 20°C		
1. Measurement length direction	[%]	± 0.0
2. Measurement length direction	[%]	± 0.0
3. Measurement length direction	[%]	± 0.0
Mean value length direction	[%]	± 0.0
1. Measurement cross direction	[%]	± 0.0
2. Measurement cross direction	[%]	± 0.0
3. Measurement cross direction	[%]	± 0.0
Mean value cross direction	[%]	± 0.0
• 3. Treatment - 24 hours storage (drying) at 60°C		
1. Measurement length direction	[%]	- 0.2
2. Measurement length direction	[%]	- 0.2
3. Measurement length direction	[%]	- 0.2
Mean value length direction	[%]	- 0.2
1. Measurement cross direction	[%]	- 0.1
2. Measurement cross direction	[%]	- 0.1
3. Measurement cross direction	[%]	- 0.1
Mean value cross direction	[%]	- 0.1
• 4. Treatment - 48 hours storage at standard atmosphere		
1. Measurement length direction	[%]	- 0.1
2. Measurement length direction	[%]	- 0.1
3. Measurement length direction	[%]	- 0.1
Mean value length direction	[%]	- 0.1
1. Measurement cross direction	[%]	- 0.1
2. Measurement cross direction	[%]	- 0.1
3. Measurement cross direction	[%]	- 0.1
Mean value cross direction	[%]	- 0.1
• Vertical distortion out of plane	[mm]	0
• Description of the final appearance		no vertical change
• Measurement uncertainty	[%]	14.94

<p>Fibrebind - Pilling EN ISO 12951, Test D (EN 1963, Test D)</p> <ul style="list-style-type: none"> • Number of specimen • Duration [double cycles] • Median [grade] 	<p>4 200 4.5</p>
<p>Basic requirements EN 1307 - Textile floor covering without pile *</p> <ul style="list-style-type: none"> • Dimensional change - ISO 2551 - shrinkage [%] • Dimensional change - ISO 2551 - lengthening [%] • Hairiness / Pilling - EN 1963 Method D [grade] • Basic requirements 	<p>- 0.2 - 4.5 fulfilled</p>
<p>General Structural Integrity EN 985 Method C</p> <ul style="list-style-type: none"> • Number of specimen • Specimen fixation • Castors • Damages by treatment • - After 10 000 cycles • - After 25 000 cycles 	<p>1 Double sided adhesive tape single swivel castor Type H -- no damage no damage</p>
<p>Changes in Appearance - Drum Test ISO 10361 Method A / EN ISO 9405</p> <ul style="list-style-type: none"> • Used scale • Appearance change 5'000 cycles (if dominant: attribute) <ul style="list-style-type: none"> Assessor 1 [grade] Assessor 2 [grade] Assessor 3 [grade] Median [grade] Mean value [grade] • Index of colour change 5'000 cycles <ul style="list-style-type: none"> Assessor 1 [grade] Assessor 2 [grade] Assessor 3 [grade] Median [grade] • Appearance change 20'000 cycles (if dominant: attribute) <ul style="list-style-type: none"> Assessor 1 [grade] Assessor 2 [grade] Assessor 3 [grade] Median [grade] Mean value [grade] • Index of colour change 20'000 cycles <ul style="list-style-type: none"> Assessor 1 [grade] Assessor 2 [grade] Assessor 3 [grade] Median [grade] • Damages by treatment 	<p>ISO-A 5.0 5.0 5.0 5.0 5.0 5 5 5 5 4.5 4.5 4.5 4.5 4.5 4-5 4-5 4-5 4-5 none</p>

<p>Classification EN 1307 - Textile floor covering without pile *</p> <ul style="list-style-type: none"> • Abrasion resistance • General structural integrity - 10 000 turns • General structural integrity - 25 000 turns • Appearance change - short time test [grade] • Appearance change - long time test [grade] • Level of use classification • Luxury-Class 	<p>no weight loss / no mass loss no damage no damage 5.0 4.5 Class 33 LC 1</p>
<p>Mass Loss - Lisson Pedal Wheel Methode EN ISO 12951, Test A (EN 1963, Test A)</p> <ul style="list-style-type: none"> • Number of specimen • Tetradindex 	<p>no weight loss / no mass loss --</p>
<p>Side Length, Squareness, Straightness EN 994 - Textile Floorcoverings</p> <ul style="list-style-type: none"> • Number of specimen • Nominal dimension <ul style="list-style-type: none"> Length [mm] Width [mm] • Determination of dimensions length <ul style="list-style-type: none"> Mean length [mm] Min. average length [mm] Max. average length [mm] Diff. between the smallest and the largest average length [mm] Max. deviation from mean length [%] Max. deviation from nominal dimension [%] • Determination of dimensions width <ul style="list-style-type: none"> Mean length [mm] Min. average length [mm] Max. average length [mm] Diff. between the smallest and the largest average length [mm] Max. deviation from mean length [%] Max. deviation from nominal dimension [%] • Squareness and straightness <ul style="list-style-type: none"> Max. deviation [mm] Max. percentage deviation [%] 	<p>5.00 480 480 480.1 480.1 480.2 0.1 <0,1 0.0 480.0 479.9 480.1 0.2 <0,1 0.0 <0,20 <0,04</p>

<p>Resistance To Fraying EN ISO 10833</p> <ul style="list-style-type: none"> • Number of specimen • Kind of test sample • Unacceptable changes <ul style="list-style-type: none"> Specimen 1 Specimen 2 Specimen 3 Specimen 4 • Assessment 	<p style="text-align: center;">4</p> <p style="text-align: center;">Tiles</p> <p style="text-align: center;">no change</p> <p style="text-align: center;">no change</p> <p style="text-align: center;">no change</p> <p style="text-align: center;">no change</p> <p style="text-align: center;">resistant to fraying</p>
<p>Castor Chair Suitability Of Textile Floor Coverings EN 985 Method A / ISO 9405</p> <ul style="list-style-type: none"> • Castors • Specimen fixation • Used scale • Appearance change 5'000 cycles (if dominant: attribute) <ul style="list-style-type: none"> Assessor 1 [grade] 4.5 Assessor 2 [grade] 5.0 Assessor 3 [grade] 4.5 Median [grade] 4.5 Mean value [grade] 4.7 • Index of colour change 5'000 cycles <ul style="list-style-type: none"> Assessor 1 [grade] 4 Assessor 2 [grade] 4-5 Assessor 3 [grade] 4-5 Median [grade] 4-5 • Appearance change 25'000 cycles (if dominant: attribute) <ul style="list-style-type: none"> Assessor 1 [grade] 4.0 Assessor 2 [grade] 4.5 Assessor 3 [grade] 4.0 Median [grade] 4.0 Mean value [grade] 4.2 • Index of colour change 25'000 cycles <ul style="list-style-type: none"> Assessor 1 [grade] 3-4 Assessor 2 [grade] 4 Assessor 3 [grade] 4 Median [grade] 4 • Damages by treatment • Castor chair index • Castor chair suitability 	<p style="text-align: center;">single swivel castor Type H</p> <p style="text-align: center;">double sided adhesive tape</p> <p style="text-align: center;">ISO-A</p> <p style="text-align: center;">4.5</p> <p style="text-align: center;">5.0</p> <p style="text-align: center;">4.5</p> <p style="text-align: center;">4.5</p> <p style="text-align: center;">4.7</p> <p style="text-align: center;">4</p> <p style="text-align: center;">4-5</p> <p style="text-align: center;">4-5</p> <p style="text-align: center;">4-5</p> <p style="text-align: center;">4.0</p> <p style="text-align: center;">4.5</p> <p style="text-align: center;">4.0</p> <p style="text-align: center;">4.0</p> <p style="text-align: center;">4.2</p> <p style="text-align: center;">3-4</p> <p style="text-align: center;">4</p> <p style="text-align: center;">4</p> <p style="text-align: center;">4</p> <p style="text-align: center;">none</p> <p style="text-align: center;">4.4</p> <p style="text-align: center;">suitable for intensive use</p>
<p>Suitability For Use On Stairs EN ISO 12951, Test B (EN 1963, Test A+B) *</p> <ul style="list-style-type: none"> • Number of specimen • Median of appearance change in the edge area [grade] • Assessment 	<p style="text-align: center;">4</p> <p style="text-align: center;">low</p> <p style="text-align: center;">suitable for commercial use</p>

<p>Horizontal Resistance ISO 10965</p> <ul style="list-style-type: none"> • Number of specimen 3.00 • Conditioning <ul style="list-style-type: none"> Temperature [°C] 23 Air humidity [%] 25 • Measuring voltage [V] 500 • Horizontal resistance <ul style="list-style-type: none"> Specimen 1 1st measurement [Ω] 1,2 x 10¹² Specimen 1 2nd measurement [Ω] 1,4 x 10¹² Specimen 2 1st measurement [Ω] 1,0 x 10¹² Specimen 2 2nd measurement [Ω] 9,0 x 10¹¹ Specimen 3 1st measurement [Ω] 1,2 x 10¹² Specimen 3 2nd measurement [Ω] 9,0 x 10¹¹ Geom. Mean value [Ω] 1,1 x 10¹² • Assessment according to EN 14041:2007 -- 	
<p>Vertical Resistance ISO 10965</p> <ul style="list-style-type: none"> • Number of specimen 3 • Conditioning <ul style="list-style-type: none"> Temperature [°C] 23 Air humidity [%] 25 • Measuring voltage [V] 500 • Vertical resistance <ul style="list-style-type: none"> Specimen 1 1st measurement [Ω] 9,0 x 10¹¹ Specimen 1 2nd measurement [Ω] 1,4 x 10¹² Specimen 2 1st measurement [Ω] 8,0 x 10¹¹ Specimen 2 2nd measurement [Ω] 1,2 x 10¹² Specimen 3 1st measurement [Ω] 1,0 x 10¹² Specimen 3 2nd measurement [Ω] 1,6 x 10¹² Geom. Mean value [Ω] 1,1 x 10¹² • Assessment according to EN 14041:2007 -- 	
<p>Static Electrical Propensity - Walking Test ISO 6356</p> <ul style="list-style-type: none"> • Testing climate <ul style="list-style-type: none"> Temperature [°C] 23 Air humidity [%] 25 • Underlay Insulating rubber mat • Sole-material XS-664P Neolite • Pretreatment none • Body-Voltage supplied condition <ul style="list-style-type: none"> 1. Measurement [kV] - 1,5 2. Measurement [kV] - 1,6 3. Measurement [kV] - 1,7 Mean value [kV] - 1,6 • Assessment according to EN 14041:2007 antistatic 	

4 Remarks

Period of 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 OETI. 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 is 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.

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