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## Test Report VN720 205157.2

### Application

Testing and classification according to EN 1307 as well as castor chair suitability and static electrical propensity.

### Test Material

"Eco Structure wt"

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 - Institut fuer Oekologie, Technik und Innovation GmbH**

**Günther Sereinig**

Customer Service Officer



## 1 Application

Date of Order	Scope of Order
08.06.2022	Summarized test report - EN 1307 Annex B Description Of Specimen - Textile Floor Coverings - EN 1307 Mass Per Unit Area - ISO 8543 Textile Floor Coverings Thickness Of Textile Floor Coverings - ISO 1765 Fibrebind - Pilling - EN ISO 12951, Test D (EN 1963, Test D) Dimension Stability And Curling After Exposure To Heat And Water - ISO 2551 / EN 986 Basic requirements - EN 1307 - Textile floor covering without pile Mass Loss - Lisson Pedal Wheel Methode - EN ISO 12951, Test A (EN 1963, Test A) General Structural Integrity - EN 985 Method C Changes in Appearance - Drum Test - ISO 10361 Method A / EN ISO 9405 Classification - EN 1307 - Textile floor covering without pile 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) Static Electrical Propensity - Walking Test - ISO 6356

## 2 Samples

No.	Receipt	Sample Identification
1	10.06.2022	"Eco Structure wt"

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

### 3 Tests Performed / Results

#1 "Eco Structure wt"

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		finish textile backing (according to B.2.4: S1 & S10)
Type of floor covering		textile floor covering without pile
Colouration		multicoloured patterned (according to B.2.5: C2)
Dimensions		rolls
Fibers of pile		100% Polyamide (according to the applicant)
• Construction		
Total mass	[g/m <sup>2</sup> ]	2279
Total thickness	[mm]	4.2
• Appearance change		
Vettermann-drum test, short time testing		5.0
Vettermann-drum test, long time testing		5.0
• Classification according EN 1307		
Basic requirements		fulfilled
Change in appearance		Class 33
Use class		Class 33
Luxury-Class		LC1
• Additional properties		
Castor chair suitability		suitable for intensive use
Stair suitability		suitable for commercial use
Body-Voltage, walking test	[kV]	-1.4
Assessment according to EN 14041:2007		antistatic
Dimensional stability (max. change)	[%]	-1.1

<p><b>Description Of Specimen - Textile Floor Coverings</b> EN 1307 *</p> <ul style="list-style-type: none"> <li>• Manufacturing procedure</li> <li>• Structure of face side</li> <li>• Colouration of the surface</li> <li>• Primary backing</li> <li>• Type of backing</li> <li>• Type of fibres at face side</li> <li>• Dimensions</li> <li>• Description according to standard</li> </ul>	<p>woven flat multicoloured patterned none finish textile backing 100% Polyamide (according to the applicant) rolls textile floor covering without pile according to EN 1307</p>
<p><b>Mass Per Unit Area</b> ISO 8543 Textile Floor Coverings</p> <ul style="list-style-type: none"> <li>• Number of specimen</li> <li>• Conditioning           <ul style="list-style-type: none"> <li>Temperature [°C]</li> <li>Air humidity [%]</li> </ul> </li> <li>• Total mass           <ul style="list-style-type: none"> <li>Mean value [g/m<sup>2</sup>]</li> <li>Coefficient of variation [%]</li> <li>Confidence interval (95%) abs. width [g/m<sup>2</sup>]</li> </ul> </li> <li>• Measurement uncertainty [%]</li> </ul>	<p>4  20 65  2279 1.5 56 0.15</p>
<p><b>Thickness Of Textile Floor Coverings</b> ISO 1765</p> <ul style="list-style-type: none"> <li>• Number of specimen</li> <li>• Conditioning           <ul style="list-style-type: none"> <li>Temperature [°C]</li> <li>Air humidity [%]</li> </ul> </li> <li>• Thickness           <ul style="list-style-type: none"> <li>Mean value [mm]</li> <li>Coefficient of variation [%]</li> <li>Confidence interval (95%) abs. width [mm]</li> </ul> </li> <li>• Measurement uncertainty [%]</li> </ul>	<p>4  20 65  4.2 2.3 0.2 0.74</p>
<p><b>Fibrebind - Pilling</b> EN ISO 12951, Test D (EN 1963, Test D)</p> <ul style="list-style-type: none"> <li>• Number of specimen</li> <li>• Duration [double cycles]</li> <li>• Median [grade]</li> </ul>	<p>4 200 5</p>

Dimension Stability And Curling After Exposure To Heat And Water ISO 2551 / EN 986		
• Number of specimen		3
• Deviation from standard		None
• 1. Treatment - 2 hours storage (drying) at 60°C		
1. Measurement length direction	[%]	- 0,2
2. Measurement length direction	[%]	- 0,1
3. Measurement length direction	[%]	- 0,1
Mean value length direction	[%]	- 0,1
1. Measurement cross direction	[%]	- 0,6
2. Measurement cross direction	[%]	- 0,4
3. Measurement cross direction	[%]	- 0,6
Mean value cross direction	[%]	- 0,5
• 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	[%]	- 0,3
2. Measurement length direction	[%]	- 0,3
3. Measurement length direction	[%]	- 0,3
Mean value length direction	[%]	- 0,3
1. Measurement cross direction	[%]	- 1,2
2. Measurement cross direction	[%]	- 1,1
3. Measurement cross direction	[%]	- 1,1
Mean value cross direction	[%]	- 1,1
• 4. Treatment - 48 hours storage at standard atmosphere		
1. Measurement length direction	[%]	- 0,3
2. Measurement length direction	[%]	- 0,2
3. Measurement length direction	[%]	- 0,2
Mean value length direction	[%]	- 0,2
1. Measurement cross direction	[%]	- 0,8
2. Measurement cross direction	[%]	- 0,6
3. Measurement cross direction	[%]	- 0,5
Mean value cross direction	[%]	- 0,6
• Vertical distortion out of plane	[mm]	0
• Description of the final appearance		No surface deformation
• Measurement uncertainty	[%]	14.94

		#1 "Eco Structure wt"
<b>Basic requirements</b> EN 1307 - Textile floor covering without pile *		
• Dimensional change - ISO 2551 - shrinkage	[%]	- 0,6
• Dimensional change - ISO 2551 - lengthening	[%]	+ 0,0
• Hairiness / Pilling - EN 1963 Method D	[grade]	5
• Basic requirements		fulfills the requirements
<b>Mass Loss - Lisson Pedal Wheel Methode</b> EN ISO 12951, Test A (EN 1963, Test A)		
• Number of specimen		4
• Mass loss per unit area		
Mean value	[g/m <sup>2</sup> ]	no weight loss / no mass loss
Coefficient of variation	[%]	--
Confidence interval (95%) abs. width	[g/m <sup>2</sup> ]	--
• Measurement uncertainty	[%]	1.33
<b>General Structural Integrity</b> EN 985 Method C		
• Number of specimen		2
• Specimen fixation		double sided adhesive tape
• Castors		single swivel castor Type H
• Damages by treatment		None
• - After 10 000 cycles		None
• - After 25 000 cycles		None

<b>Changes in Appearance - Drum Test</b> ISO 10361 Method A / EN ISO 9405		ISO loop (ISO - A)
• Used scale		
• Appearance change 5'000 cycles (if dominant: attribute)		
Assessor 1	[grade]	5.0
Assessor 2	[grade]	5.0
Assessor 3	[grade]	5.0
Median	[grade]	5.0
Mean value	[grade]	5.0
• Index of colour change 5'000 cycles		
Assessor 1	[grade]	5
Assessor 2	[grade]	5
Assessor 3	[grade]	5
Median	[grade]	5
• Appearance change 20'000 cycles (if dominant: attribute)		
Assessor 1	[grade]	5.0
Assessor 2	[grade]	5.0
Assessor 3	[grade]	5.0
Median	[grade]	5.0
Mean value	[grade]	5.0
• Index of colour change 20'000 cycles		
Assessor 1	[grade]	4 - 5
Assessor 2	[grade]	4 - 5
Assessor 3	[grade]	4 - 5
Median	[grade]	4 - 5
• Damages by treatment		None

<p><b>Classification</b> EN 1307 - Textile floor covering without pile *</p> <ul style="list-style-type: none"> <li>• Abrasion resistance</li> <li>• General structural integrity - 10 000 turns</li> <li>• General structural integrity - 25 000 turns</li> <li>• Appearance change - short time test [grade]</li> <li>• Appearance change - long time test [grade]</li> <li>• Level of use classification</li> <li>• Luxury-Class</li> </ul>	<p style="text-align: center;">Class 33 No destruction No destruction 5.0 5.0 Class 33 LC 1</p>
<p><b>Castor Chair Suitability Of Textile Floor Coverings</b> EN 985 Method A / ISO 9405</p> <ul style="list-style-type: none"> <li>• Castors</li> <li>• Specimen fixation</li> <li>• Used scale</li> <li>• Appearance change 5'000 cycles (if dominant: attribute)           <ul style="list-style-type: none"> <li>Assessor 1 [grade] 5.0</li> <li>Assessor 2 [grade] 5.0</li> <li>Assessor 3 [grade] 5.0</li> <li>Median [grade] 5.0</li> <li>Mean value [grade] 5.0</li> </ul> </li> <li>• Index of colour change 5'000 cycles           <ul style="list-style-type: none"> <li>Assessor 1 [grade] 4 - 5</li> <li>Assessor 2 [grade] 4 - 5</li> <li>Assessor 3 [grade] 4 - 5</li> <li>Median [grade] 4 - 5</li> </ul> </li> <li>• Appearance change 25'000 cycles (if dominant: attribute)           <ul style="list-style-type: none"> <li>Assessor 1 [grade] 4.5</li> <li>Assessor 2 [grade] 4.5</li> <li>Assessor 3 [grade] 4.5</li> <li>Median [grade] 4.5</li> <li>Mean value [grade] 4.5</li> </ul> </li> <li>• Index of colour change 25'000 cycles           <ul style="list-style-type: none"> <li>Assessor 1 [grade] 3 - 4</li> <li>Assessor 2 [grade] 3 - 4</li> <li>Assessor 3 [grade] 3 - 4</li> <li>Median [grade] 3 - 4</li> </ul> </li> <li>• Damages by treatment</li> <li>• Castor chair index</li> <li>• Castor chair suitability</li> </ul>	<p style="text-align: center;">single swivel castor Type H double sided adhesive tape ISO loop (ISO - A)</p> <p style="text-align: center;">5.0 5.0 5.0 5.0 5.0 4 - 5 4 - 5 4 - 5 4 - 5 4.5 4.5 4.5 4.5 4.5 3 - 4 3 - 4 3 - 4 3 - 4 None 4.90 suitable for intensive use</p>
<p><b>Suitability For Use On Stairs</b> EN ISO 12951, Test B (EN 1963, Test A+B) *</p> <ul style="list-style-type: none"> <li>• Number of specimen</li> <li>• Median of appearance change in the edge area [grade]</li> <li>• Assessment</li> </ul>	<p style="text-align: center;">4 low change suitable for commercial use</p>



<b>Static Electrical Propensity - Walking Test</b>		
ISO 6356		
• Testing climate		
Temperature	[°C]	23
Air humidity	[%]	25
• Underlay		isolated rubber mat in metal
• Sole-material		XS-664P Neolite
• Pretreatment		None
• Body-Voltage supplied condition		
1. Measurement	[kV]	- 1,2
2. Measurement	[kV]	- 1,7
3. Measurement	[kV]	- 1,3
Mean value	[kV]	- 1,4
• 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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