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Vienna / 25.11.2022 / guse

## Test Report VN720 204240.1-2

### Application

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

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### Test Material

"Eco Compact wt"

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

### Issuing

Original Issuing, 25.11.2022  
Number Of Included Pages: 10

**OETI - Institut fuer Oekologie, Technik und Innovation GmbH**

A handwritten signature in blue ink, appearing to read "Günther Sereinig".

**Günther Sereinig**

Customer Service Officer

K...Comment on revision see chapter Remarks/Quality Management





## 1 Application

Date of Order	Scope of Order
30.05.2022	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 for textile floor coverings, EN 1307 <sup>k</sup> 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 of textile floor coverings, EN 1307 <sup>k</sup> 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

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## 2 Samples

No.	Receipt	Sample Identification
1	30.05.2022	"Eco Compact wt"

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

### 3 Tests Performed / Results

#1 "Eco Compact wt"

<b>Summarized test report</b> 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 (according to B.2.4: S10)
Type of floor covering		textile floor covering without pile
Base		None
Colouration		multicoloured unpatterned (according to B.2.5: C3)
Dimensions		rolls
Fibers of pile		100% Polyamide (according to the applicant)
• Construction		
Total mass	[g/m <sup>2</sup> ]	2149
Total thickness	[mm]	3.8
• 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		LC1
• Additional properties		
Castor chair suitability		suitable for intensive use
Stair suitability		suitable for commercial use <sup>K</sup>
Body-Voltage, walking test	[kV]	-1.3
Assessment according to EN 14041:2007		antistatic
Dimensional stability (max. change)	[%]	-1,1

K...Comment on revision see chapter Remarks/Quality Management

#1 "Eco Compact wt"

<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>• Primary backing</li> <li>• Colouration of the surface</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 none multicoloured unpatterned 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 2149 0.2 7 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 3.8 1.2 0 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 3.5</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	[%]	- 0,5
2. Measurement length direction	[%]	- 0,4
3. Measurement length direction	[%]	- 0,5
Mean value length direction	[%]	- 0,5
1. Measurement cross direction	[%]	- 0,2
2. Measurement cross direction	[%]	- 0,4
3. Measurement cross direction	[%]	- 0,2
Mean value cross direction	[%]	- 0,3
• 2. Treatment - 2 hours storage in water at 20°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	[%]	± 0,0
2. Measurement cross direction	[%]	- 0,3
3. Measurement cross direction	[%]	± 0,0
Mean value cross direction	[%]	- 0,1
• 3. Treatment - 24 hours storage (drying) at 60°C		
1. Measurement length direction	[%]	- 1,1
2. Measurement length direction	[%]	- 1,1
3. Measurement length direction	[%]	- 0,9
Mean value length direction	[%]	- 1,0
1. Measurement cross direction	[%]	- 0,3
2. Measurement cross direction	[%]	- 0,5
3. Measurement cross direction	[%]	- 0,3
Mean value cross direction	[%]	- 0,4
• 4. Treatment - 48 hours storage at standard atmosphere		
1. Measurement length direction	[%]	- 0,7
2. Measurement length direction	[%]	- 0,8
3. Measurement length direction	[%]	- 0,7
Mean value length direction	[%]	- 0,7
1. Measurement cross direction	[%]	- 0,2
2. Measurement cross direction	[%]	- 0,5
3. Measurement cross direction	[%]	- 0,2
Mean value cross direction	[%]	- 0,3
• Vertical distortion out of plane	[mm]	3
• Description of the final appearance		curvature medium ( > 2 mm - 5 mm)
• Measurement uncertainty	[%]	14.94

		#1 "Eco Compact wt"
<b>Basic requirements</b> textile floor coverings, EN 1307 <sup>K</sup>		
• Dimensional change - ISO 2551 - shrinkage	[%]	- 0,7 <sup>K</sup>
• Dimensional change - ISO 2551 - lengthening	[%]	± 0,0
• Hairiness / Pilling - EN 1963 Method D	[grade]	3,5
• 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		1
• 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

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<p><b>Changes in Appearance - Drum Test</b> ISO 10361 Method A / EN ISO 9405</p> <ul style="list-style-type: none"> <li>• Used scale</li> <li>• Appearance change 5'000 cycles (if dominant: attribute)           <table border="0" style="width: 100%; margin-left: 20px;"> <tr><td>Assessor 1</td><td>[grade]</td><td>5.0</td></tr> <tr><td>Assessor 2</td><td>[grade]</td><td>5.0</td></tr> <tr><td>Assessor 3</td><td>[grade]</td><td>5.0</td></tr> <tr><td>Median</td><td>[grade]</td><td>5.0</td></tr> <tr><td>Mean value</td><td>[grade]</td><td>5.0</td></tr> </table> </li> <li>• Index of colour change 5'000 cycles           <table border="0" style="width: 100%; margin-left: 20px;"> <tr><td>Assessor 1</td><td>[grade]</td><td>5</td></tr> <tr><td>Assessor 2</td><td>[grade]</td><td>5</td></tr> <tr><td>Assessor 3</td><td>[grade]</td><td>5</td></tr> <tr><td>Median</td><td>[grade]</td><td>5</td></tr> </table> </li> <li>• Appearance change 20'000 cycles (if dominant: attribute)           <table border="0" style="width: 100%; margin-left: 20px;"> <tr><td>Assessor 1</td><td>[grade]</td><td>4.5</td></tr> <tr><td>Assessor 2</td><td>[grade]</td><td>4.5</td></tr> <tr><td>Assessor 3</td><td>[grade]</td><td>4.5</td></tr> <tr><td>Median</td><td>[grade]</td><td>4.5</td></tr> <tr><td>Mean value</td><td>[grade]</td><td>4.5</td></tr> </table> </li> <li>• Index of colour change 20'000 cycles           <table border="0" style="width: 100%; margin-left: 20px;"> <tr><td>Assessor 1</td><td>[grade]</td><td>4</td></tr> <tr><td>Assessor 2</td><td>[grade]</td><td>4</td></tr> <tr><td>Assessor 3</td><td>[grade]</td><td>4</td></tr> <tr><td>Median</td><td>[grade]</td><td>4</td></tr> </table> </li> <li>• Damages by treatment</li> </ul>	Assessor 1	[grade]	5.0	Assessor 2	[grade]	5.0	Assessor 3	[grade]	5.0	Median	[grade]	5.0	Mean value	[grade]	5.0	Assessor 1	[grade]	5	Assessor 2	[grade]	5	Assessor 3	[grade]	5	Median	[grade]	5	Assessor 1	[grade]	4.5	Assessor 2	[grade]	4.5	Assessor 3	[grade]	4.5	Median	[grade]	4.5	Mean value	[grade]	4.5	Assessor 1	[grade]	4	Assessor 2	[grade]	4	Assessor 3	[grade]	4	Median	[grade]	4	<p>ISO - A</p>
Assessor 1	[grade]	5.0																																																					
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<p><b>Classification</b> textile floor coverings, EN 1307 * K</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>Class 33 No Destruction No Destruction 5.0 4.5 Class 33 LC 1</p>																																																						

K...Comment on revision see chapter Remarks/Quality Management

#1 "Eco Compact wt"

<p><b>Castor Chair Suitability Of Textile Floor Coverings<sup>k</sup></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] 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 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] 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>• Damages by treatment</li> <li>• Castor chair index</li> <li>• Castor chair suitability</li> </ul>	<p>single swivel castor Type H double sided adhesive tape ISO-A</p> <p>4.5 4.5 4.5 4.5 4.5</p> <p>4-5 4-5 4-5 4-5</p> <p>4.5 4.5 4.5 4.5 4.5</p> <p>4-5 4-5 4-5 4-5</p> <p>none</p> <p>4.50</p> <p>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>4</p> <p>low change</p> <p>suitable for commercial use</p>

K...Comment on revision see chapter Remarks/Quality Management



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

### Sample Material

Results of performed tests only refer to the sample material provided. Without explicit written other agreement testing is destructive and the sample material is transferred to the property of OETI, which is entitled to freely decide on storage and disposal.

### Issuing

This test report is only issued as a PDF. Translations will be marked accordingly on the cover sheet.

### Quality Management, Accreditation And Notification

This issue replaces report VN721 204240.1, dated 25.08.2022. Reason for revision: Unclear item name corrected. All tests and services are performed under a quality management system according to EN ISO/IEC 17025. OETI is accredited as Testing Laboratory and Certification Body for products. It also is a Notified Body (NB0534). (see <http://ec.europa.eu/enterprise/newapproach/nando/>). Accreditation was provided by Akkreditierung Austria. The scope of accreditation is listed on [www.oeti.biz](http://www.oeti.biz). Due to the system for the mutual recognition of national accreditations (ILAC/IAF), this accreditation is valid worldwide.

Statements of conformity are based on the specifications of the specified standard. The "simple acceptance rule" applies, that means the measurement uncertainty is stated for the statement of conformity, but not taken into account.

In this report individual non-accredited test procedures are marked with \*. Nevertheless, the analysis was also carried out for these parameters at the same level of quality as for the accredited parameters.

According to the decree on the use of the accreditation mark ("AkkZV") the accredited Conformity Assessment Body is the only one to use the accreditation mark. Application of the registration number of the Notified Body: As to personal protective equipment (PPE) the requirements of Regulation (EU) 2016/425 have to be kept. With construction products the application is only permitted within the declaration of performance for CE-marking.

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End of Report