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## Test Report VN720 156442.1

### 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.

### Test Material

"Una Tempo ECT350"

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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## 1 Application

Date of Order	Scope of Order
17.06.2019	Summarized test report - EN 1307 Annex B Description Of Specimen - Textile Floor Coverings - EN 1307 Mass Per Unit Area - ISO 8543 Textile Floor Coverings Mass Per Unit Area - ISO 8543 Pile Layer Of Textile Floor Coverings Thickness Of Textile Floor Coverings - ISO 1765 Thickness Wear Layer Of Textile Floor Coverings - ISO 1766 Pile Density - ISO 8543 Number Of Tufts Or Loops - ISO 1763 Fibrebind - EN ISO 12951, Test C (EN 1963, Test C) Basic requirements - EN 1307 - Textile floor covering with loop pile Changes in Appearance - Drum Test - ISO 10361 Method A / EN ISO 9405 Classification - EN 1307 - Textile floor covering with pile Mass Per Unit Area - ISO 8543 Total Mass Of The Single Tile Side Length, Squareness, Straightness - EN 994 - Textile Floorcoverings Dimension Stability And Curling After Exposure To Heat And Water - ISO 2551 / EN 986 Resistance To Fraying - EN 1814 Specific requirements of tiles - EN 1307 Annex A Castor Chair Suitability Of Textile Floor Coverings - EN 985 Methode A / ISO 9405 Suitability For Use On Stairs - EN ISO 12951, Test B (EN 1963, Test B) Static Electrical Propensity - Walking Test - ISO 6356

## 2 Samples

No.	Receipt	Sample Identification
1	26.06.2019	"Una Tempo ECT350"

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

### 3 Tests Performed / Results

#1 "Una Tempo ECT350"

Summarized test report EN 1307 Annex B		
• Identification, basic information		
Product name		"Una Tempo ECT350"
Type of face side		Loop Pile (according to B.2.2: A4)
Manufacturing procedure		Tufted (according to B.2.1: M5)
Backing		Textile Backing (non-woven) (according to B.2.4: S10)
Type of floor covering		Pile Carpet
Base		Non-woven (according to B.2.3: P3)
Colouration		multicolored patterned (according to B.2.5: C2)
Dimensions		Tiles
Fibres of pile		100% Polyamide
• Construction		
Total mass	[g/m <sup>2</sup> ]	2 693
Pile mass above the substrate	[g/m <sup>2</sup> ]	294
Total thickness	[mm]	6,9
Thickness of pile layer	[mm]	2,9
Surface pile density	[g/cm <sup>3</sup> ]	0,101
Number of tufts or loops per dm <sup>2</sup>		1 615
• Appearance change		
Vetterman-drum test, short time testing		4,5
Vetterman-drum test, long time testing		3,5
• Classification according EN 1307		
Basic requirements		fulfilled
Change in appearance		Class 33
Additional mandatory requirements		Class 33
Use class		Class 33
Comfort-Class		LC1
• Additional properties		
Castor chair suitability		suitable for intensive use
Stair suitability		suitable for intensive use
Fraying resistance		resistant to fraying
Body-Voltage, walking test	[kV]	- 0,3
Judgement according to EN 14041:2007		antistatic
Dimensional stability (max. change)	[%]	- 0,3

#1 "Una Tempo ECT350"

<b>Specific requirements of tiles</b> EN 1307 Annex A		
• Total mass of individual tile	[kg]	0,545
• Total weight per unit area	[kg/m <sup>2</sup> ]	2,7
• Dimensions of tiles	[mm]	480 x 480
• Max. deviation from mean length	[%]	< 0,1
• Squareness and straightness	[%]	< 0,04
• Dimensional stability (max. change)	[%]	- 0,3
• Distortion out of plane	[mm]	0
• Damage at cut edge		none
• Tile suitability		Suitable for permanent adhered tiles

#1 "Una Tempo ECT350"

<b>Description Of Specimen - Textile Floor Coverings</b> EN 1307		
• Manufacturing procedure		tufted
• Structure of face side		Loop pile
• Base		Non-woven
• Colouration of the surface		multicolored patterned
• Type of backing		Textile Backing (non-woven)
• Type of fibres at face side		100% Polyamide
• Dimensions		Tiles
• Description according to standard		Floor covering with pile
<b>Mass Per Unit Area</b> ISO 8543 Textile Floor Coverings		
• Number of specimen		4
• Conditioning		
Temperature	[°C]	20
Air humidity	[%]	65
• Total mass		
Mean value	[g/m <sup>2</sup> ]	2 693
Coefficient of variation	[%]	3,9
Confidence intervall (95%) abs. width	[g/m <sup>2</sup> ]	165

<b>Mass Per Unit Area</b> ISO 8543 Pile Layer Of Textile Floor Coverings		
• Number of specimen		4
• Conditioning		
Temperature	[°C]	20
Air humidity	[%]	65
• Total mass of pile		
Mean value	[g/m <sup>2</sup> ]	294
Coefficient of variation	[%]	3,2
Confidence intervall (95%) abs. width	[g/m <sup>2</sup> ]	15
<b>Thickness Of Textile Floor Coverings</b> ISO 1765		
• Number of specimen		4
• Conditioning		
Temperature	[°C]	20
Air humidity	[%]	65
• Thickness		
Mean value	[mm]	6,6
Coefficient of variation	[%]	0,3
Confidence intervall (95%) abs. width	[mm]	0,1
<b>Thickness Wear Layer Of Textile Floor Coverings</b> ISO 1766		
• Number of specimen		4
• Conditioning		
Temperature	[°C]	20
Air humidity	[%]	65
• Shearing methode		
• Thickness of wear layer		
Mean value	[mm]	2,9
Coefficient of variation	[%]	0,5
Confidence intervall (95%) abs. width	[mm]	0,1
<b>Pile Density</b> ISO 8543		
• Pile material		100% Polyamide
• Density of pile material	[g/cm <sup>3</sup> ]	1,14
• Mass of pile per unit area	[g/m <sup>2</sup> ]	294
• Thickness of pile layer	[mm]	2,9
• Surface pile density	[g/cm <sup>3</sup> ]	0,101
• Relative surface pile density	[%]	8,9

<p><b>Number Of Tufts Or Loops</b> ISO 1763</p> <ul style="list-style-type: none"> <li>• Number of specimen</li> <li>• Number of tufts or loops / 10 cm           <ul style="list-style-type: none"> <li>Longitudinal direction</li> <li>Cross direction</li> </ul> </li> <li>• Number of tufts or loops per dm<sup>2</sup></li> <li>• Number of tufts or loops per m<sup>2</sup></li> </ul>	<p>4</p> <p>41,0</p> <p>39,4</p> <p>1 615</p> <p>161 500</p>
<p><b>Fibrebind</b> EN ISO 12951, Test C (EN 1963, Test C)</p> <ul style="list-style-type: none"> <li>• Number of specimen</li> <li>• Duration [cycles]</li> <li>• Appearance change compared to photostandard</li> </ul>	<p>4</p> <p>400</p> <p>better</p>
<p><b>Basic requirements</b> EN 1307 - Textile floor covering with loop pile</p> <ul style="list-style-type: none"> <li>• Fibre bind - Loop pile - EN 1963 Methode C</li> <li>• Basic requirements</li> </ul>	<p>better</p> <p>fulfilled</p>
<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)           <ul style="list-style-type: none"> <li>Assessor 1 [grade] 4,5</li> <li>Assessor 2 [grade] 4,5</li> <li>Assessor 3 [grade] 4,0</li> <li>Median [grade] 4,5</li> <li>Mean value [grade] 4,3</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</li> <li>Median [grade] 4-5</li> </ul> </li> <li>• Appearance change 20'000 cycles (if dominant: attribute)           <ul style="list-style-type: none"> <li>Assessor 1 [grade] 3,5</li> <li>Assessor 2 [grade] 4,0</li> <li>Assessor 3 [grade] 3,5</li> <li>Median [grade] 3,5</li> <li>Mean value [grade] 3,7</li> </ul> </li> <li>• Index of colour change 20'000 cycles           <ul style="list-style-type: none"> <li>Assessor 1 [grade] 4</li> <li>Assessor 2 [grade] 4</li> <li>Assessor 3 [grade] 3-4</li> <li>Median [grade] 4</li> </ul> </li> <li>• Damages by treatment</li> </ul>	<p>ISO - A</p> <p>4,5</p> <p>4,5</p> <p>4,0</p> <p>4,5</p> <p>4,3</p> <p>4-5</p> <p>4-5</p> <p>4</p> <p>4-5</p> <p>3,5</p> <p>4,0</p> <p>3,5</p> <p>3,5</p> <p>3,7</p> <p>4</p> <p>4</p> <p>3-4</p> <p>4</p> <p>none</p>

<p><b>Classification</b> EN 1307 - Textile floor covering with pile</p> <ul style="list-style-type: none"> <li>• Appearance change - short time test [grade] 4,5</li> <li>• Appearance change - long time test [grade] 3,5</li> <li>• Level of use classification Class 33</li> <li>• Comfort-Class LC1</li> </ul>	
<p><b>Mass Per Unit Area</b> ISO 8543 Total Mass Of The Single Tile</p> <ul style="list-style-type: none"> <li>• Number of specimen 4</li> <li>• Conditioning               <ul style="list-style-type: none"> <li>Temperature [°C] 20</li> <li>Air humidity [%] 65</li> </ul> </li> <li>• Total mass of tiles               <ul style="list-style-type: none"> <li>Mean value [kg] 0,545</li> <li>Coefficient of variation [%] 1,8</li> <li>Confidence intervall (95%) abs. width [kg] 0,016</li> </ul> </li> </ul>	
<p><b>Side Length, Squareness, Straightness</b> EN 994 - Textile Floorcoverings</p> <ul style="list-style-type: none"> <li>• Number of specimen 5</li> <li>• Nominal dimension               <ul style="list-style-type: none"> <li>Length [mm] 480</li> <li>Width [mm] 480</li> </ul> </li> <li>• Determination of dimensions length               <ul style="list-style-type: none"> <li>Mean length [mm] 480,1</li> <li>Min. average length [mm] 480,0</li> <li>Max. average length [mm] 480,1</li> <li>Diff. between the smallest and the largest average length [mm] 0,1</li> <li>Max. deviation from mean length [%] &lt; 0,1</li> <li>Max. deviation from nominal dimension [%] 0,0</li> </ul> </li> <li>• Determination of dimensions width               <ul style="list-style-type: none"> <li>Mean length [mm] 480,1</li> <li>Min. average length [mm] 480,0</li> <li>Max. average length [mm] 480,2</li> <li>Diff. between the smallest and the largest average length [mm] 0,2</li> <li>Max. deviation from mean length [%] &lt; 0,1</li> <li>Max. deviation from nominal dimension [%] 0,0</li> </ul> </li> <li>• Squareness and staightness               <ul style="list-style-type: none"> <li>Max. deviation [mm] &lt; 0,20</li> <li>Max. percentage deviation [%] &lt; 0,04</li> </ul> </li> </ul>	

Dimension Stability And Curling After Exposure To Heat And Water ISO 2551 / EN 986		
• 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	[%]	± 0,0
2. Measurement cross direction	[%]	± 0,0
3. Measurement cross direction	[%]	- 0,1
Mean value cross direction	[%]	± 0,0
• 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	[%]	± 0,0
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	[%]	- 0,1
2. Measurement length direction	[%]	- 0,3
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	[%]	- 0,3
2. Measurement length direction	[%]	- 0,3
3. Measurement length direction	[%]	- 0,3
Mean value length direction	[%]	- 0,3
1. Measurement cross direction	[%]	- 0,1
2. Measurement cross direction	[%]	± 0,0
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 distortion out of plane



<p><b>Resistance To Fraying</b> EN 1814</p> <ul style="list-style-type: none"> <li>• Number of specimen</li> <li>• Kind of test sample</li> <li>• Description of cut edge after treatment           <ul style="list-style-type: none"> <li>Delamination</li> <li>Fraying</li> <li>Tuft loss / sprouting</li> <li>Thread puller</li> <li>Release of fibers from the pile material</li> </ul> </li> <li>• Assessment</li> </ul>	<p style="text-align: center;">4</p> <p style="text-align: center;">tiles</p> <p style="text-align: center;">not occurred</p> <p style="text-align: center;">not occurred</p> <p style="text-align: center;">not occurred</p> <p style="text-align: center;">not occurred</p> <p style="text-align: center;">not occurred</p> <p style="text-align: center;">resistant to fraying</p>
<p><b>Castor Chair Suitability Of Textile Floor Coverings</b> EN 985 Methode 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] 3,0</li> <li>Assessor 2 [grade] 3,0</li> <li>Assessor 3 [grade] 3,0</li> <li>Median [grade] 3,0</li> <li>Mean value [grade] 3,0</li> </ul> </li> <li>• Index of colour change 5'000 cycles           <ul style="list-style-type: none"> <li>Assessor 1 [grade] 3</li> <li>Assessor 2 [grade] 3</li> <li>Assessor 3 [grade] 3</li> <li>Median [grade] 3</li> </ul> </li> <li>• Appearance change 25'000 cycles (if dominant: attribute)           <ul style="list-style-type: none"> <li>Assessor 1 [grade] 2,5</li> <li>Assessor 2 [grade] 2,5</li> <li>Assessor 3 [grade] 2,5</li> <li>Median [grade] 2,5</li> <li>Mean value [grade] 2,5</li> </ul> </li> <li>• Index of colour change 25'000 cycles           <ul style="list-style-type: none"> <li>Assessor 1 [grade] 2-3</li> <li>Assessor 2 [grade] 2-3</li> <li>Assessor 3 [grade] 2-3</li> <li>Median [grade] 2-3</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</p> <p style="text-align: center;">Double sided adhesive tape</p> <p style="text-align: center;">ISO-A</p> <p style="text-align: center;">3,0</p> <p style="text-align: center;">3,0</p> <p style="text-align: center;">3,0</p> <p style="text-align: center;">3,0</p> <p style="text-align: center;">3,0</p> <p style="text-align: center;">3</p> <p style="text-align: center;">3</p> <p style="text-align: center;">3</p> <p style="text-align: center;">3</p> <p style="text-align: center;">2,5</p> <p style="text-align: center;">2,5</p> <p style="text-align: center;">2,5</p> <p style="text-align: center;">2,5</p> <p style="text-align: center;">2,5</p> <p style="text-align: center;">2-3</p> <p style="text-align: center;">2-3</p> <p style="text-align: center;">2-3</p> <p style="text-align: center;">2-3</p> <p style="text-align: center;">none</p> <p style="text-align: center;">2,9</p> <p style="text-align: center;">suitable for intensive use</p>

<p><b>Suitability For Use On Stairs</b> EN ISO 12951, Test B (EN 1963, Test 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 suitable for intensive use</p>
<p><b>Static Electrical Propensity - Walking Test</b> ISO 6356</p> <ul style="list-style-type: none"> <li>• Number of specimen</li> <li>• Testing climate               <ul style="list-style-type: none"> <li>Temperature [°C]</li> <li>Air humidity [%]</li> </ul> </li> <li>• Underlay</li> <li>• Sole-material</li> <li>• Pretreatment</li> <li>• Body-Voltage supplied condition               <ul style="list-style-type: none"> <li>1. Measurement [kV]</li> <li>2. Measurement [kV]</li> <li>3. Measurement [kV]</li> <li>Mean value [kV]</li> </ul> </li> <li>• Judgement according to EN 14041:2007</li> </ul>	<p style="text-align: center;">1 23 25 Rubber on metal plate XS-664P Neolite none - 0.2 - 0,4 - 0,4 - 0,3 antistatic</p>

## 4 Remarks

### Period of Validity

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End of Report