



Ege Carpets A/S
Industrivej Nord 25
7400 Herning
Denmark

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

Vienna / 29.03.2021 / atad

Test Report VN720 182252.1

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

"Highline 750 AB"

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

Issuing

Original Issuing, 29.03.2021
Number Of Included Pages: 10

OETI - Institute for Ecology, Technology and Innovation GmbH

A handwritten signature in blue ink, appearing to read "Hannes Vittek".

Ing. Hannes Vittek

Manager Flooring Technology & Interior Design



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
23.02.2021	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 Of Pile Above Substrate - ISO 8543 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 Mass Loss - Lisson Pedal Wheel Methode - EN ISO 12951, Test A (EN 1963, Test A) Basic requirements - EN 1307 - Textile floor covering with cut pile Changes in Appearance - Drum Test - ISO 10361 Method A / EN ISO 9405 Classification - EN 1307 - Textile floor covering with 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) Resistance To Fraying - EN ISO 10833 Static Electrical Propensity - Walking Test - ISO 6356 Dimension Stability And Curling After Exposure To Heat And Water - ISO 2551 / EN 986

2 Samples

No.	Receipt	Sample Identification
1	01.03.2021	"Highline 750 AB"

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

3 Tests Performed / Results

Summarized test report EN 1307 Annex B	#1 "Highline 750 AB"
<ul style="list-style-type: none"> • Identification, basic information Product name	"Highline 750 AB"

Type of face side		Cut Pile (according to B.2.2: A1)
Manufacturing procedure		Tufted (according to B.2.1: M5)
Backing		Textile Backing (according to B.2.4: S10)
Type of floor covering		Pile Carpet
Base		Non-woven (according to B.2.3: P3)
Colouration		Multicolored unpatterned (according to B.2.5: C3)
Dimensions		Rolls
Fibers of pile		100% Polyamide
• Construction		
Total mass	[g/m ²]	2527
Pile mass above the substrate	[g/m ²]	638
Total thickness	[mm]	9.8
Thickness of pile layer	[mm]	5.3
Surface pile density	[g/cm ³]	0.120
Number of tufts or loops per dm ²		1857
• Appearance change		
Vettermann-drum test, short time testing		4.0
Vettermann-drum test, long time testing		3.5
• Classification according EN 1307		
Basic requirements		fulfilled
Change in appearance		Class 33
Use class		Class 33
Luxury-Class		LC 3
• 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]	-1.9
Assessment according to EN 14041:2007		antistatic
Dimensional stability (max. change)	[%]	-0.2

<p>Description Of Specimen - Textile Floor Coverings EN 1307</p> <ul style="list-style-type: none"> • Manufacturing procedure • Structure of face side • Primary backing • Colouration of the surface • Type of backing • Type of fibres at face side • Dimensions • Description according to standard 	<p style="text-align: center;">Tufting Cut Pile Non-woven Multicolored unpatterned Textile backing 100% Polyamide Rolls Pile Carpet according to EN 1307</p>
<p>Mass Per Unit Area ISO 8543 Textile Floor Coverings</p> <ul style="list-style-type: none"> • Number of specimen • Conditioning <ul style="list-style-type: none"> Temperature [°C] Air humidity [%] • Total mass <ul style="list-style-type: none"> Mean value [g/m²] Coefficient of variation [%] Confidence interval (95%) abs. width [g/m²] • Measurement uncertainty [%] 	<p style="text-align: center;">4 20 65 2527 3.5 142 0.15</p>
<p>Mass Of Pile Above Substrate ISO 8543</p> <ul style="list-style-type: none"> • Number of specimen • Conditioning <ul style="list-style-type: none"> Temperature [°C] Air humidity [%] • Mass of pile above substrate <ul style="list-style-type: none"> Mean value [g/m²] Coefficient of variation [%] Confidence interval (95%) abs. width [g/m²] • Measurement uncertainty [%] 	<p style="text-align: center;">4 20 65 638 0.7 7 0.97</p>
<p>Thickness Of Textile Floor Coverings ISO 1765</p> <ul style="list-style-type: none"> • Number of specimen • Conditioning <ul style="list-style-type: none"> Temperature [°C] Air humidity [%] • Thickness <ul style="list-style-type: none"> Mean value [mm] Coefficient of variation [%] Confidence interval (95%) abs. width [mm] • Measurement uncertainty [%] 	<p style="text-align: center;">4 20 65 9.8 0.9 0.2 0.74</p>

#1 "Highline 750 AB"

Thickness Wear Layer Of Textile Floor Coverings ISO 1766		
• Number of specimen		4
• Conditioning		
Temperature	[°C]	20
Air humidity	[%]	65
• Thickness of wear layer		
Mean value	[mm]	5.3
Coefficient of variation	[%]	0.9
Confidence interval (95%) abs. width	[mm]	0.1
• Measurement uncertainty	[%]	0.71
Pile Density ISO 8543		
• Number of specimen		4
• Pile material		100% Polyamide
• Density of pile material	[g/cm ³]	1.14
• Mass of pile per unit area	[g/m ²]	638
• Thickness of pile layer	[mm]	5.3
• Surface pile density	[g/cm ³]	0.120
• Relative surface pile density	[%]	10.6
Number Of Tufts Or Loops ISO 1763		
• Number of specimen		4
• Number of tufts or loops / 10 cm		
Longitudinal direction		47.0
Cross direction		39.5
• Number of tufts or loops per dm ²		1857
• Number of tufts or loops per m ²		185700
Mass Loss - Lisson Pedal Wheel Methode EN ISO 12951, Test A (EN 1963, Test A)		
• Number of specimen		4
• Mass loss per unit area		
Mean value	[g/m ²]	17.0
Coefficient of variation	[%]	13.3
Confidence interval (95%) abs. width	[g/m ²]	4.0
• Relative mass loss		
Mean value	[%]	2.7
Coefficient of variation	[%]	13.3
Confidence interval (95%) abs. width	[%]	0.6
• Treadindex		4.7
• Measurement uncertainty	[%]	1.33

<p>Basic requirements EN 1307 - Textile floor covering with cut pile</p> <ul style="list-style-type: none"> • Fibre bind - Cut pile - EN 1963 Methode A [%] • Basic requirements 	<p style="text-align: right;">2.7</p> <p style="text-align: right;">fulfilled</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] 4.0 Assessor 2 [grade] 3.5 Assessor 3 [grade] 4.0 Median [grade] 4.0 Mean value [grade] 3.8 • Index of colour change 5'000 cycles <ul style="list-style-type: none"> Assessor 1 [grade] 4 Assessor 2 [grade] 4 Assessor 3 [grade] 4 Median [grade] 4 • Appearance change 20'000 cycles (if dominant: attribute) <ul style="list-style-type: none"> Assessor 1 [grade] 3.5 Assessor 2 [grade] 3.0 Assessor 3 [grade] 3.5 Median [grade] 3.5 Mean value [grade] 3.3 • Index of colour change 20'000 cycles <ul style="list-style-type: none"> Assessor 1 [grade] 3 Assessor 2 [grade] 3-4 Assessor 3 [grade] 3 Median [grade] 3 • Damages by treatment 	<p style="text-align: right;">ISO - B</p>
<p>Classification EN 1307 - Textile floor covering with pile</p> <ul style="list-style-type: none"> • Appearance change - short time test [grade] 4.0 • Appearance change - long time test [grade] 3.5 • Level of use classification • Luxury-Class 	<p style="text-align: right;">Class 33</p> <p style="text-align: right;">LC3</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) <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 40%;">Assessor 1</td> <td style="width: 15%; text-align: right;">[grade]</td> <td style="width: 45%; text-align: right;">3.5</td> </tr> <tr> <td>Assessor 2</td> <td style="text-align: right;">[grade]</td> <td style="text-align: right;">3.5</td> </tr> <tr> <td>Assessor 3</td> <td style="text-align: right;">[grade]</td> <td style="text-align: right;">3.0</td> </tr> <tr> <td>Median</td> <td style="text-align: right;">[grade]</td> <td style="text-align: right;">3.5</td> </tr> <tr> <td>Mean value</td> <td style="text-align: right;">[grade]</td> <td style="text-align: right;">3.3</td> </tr> </table> • Index of colour change 5'000 cycles <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 40%;">Assessor 1</td> <td style="width: 15%; text-align: right;">[grade]</td> <td style="width: 45%; text-align: right;">3-4</td> </tr> <tr> <td>Assessor 2</td> <td style="text-align: right;">[grade]</td> <td style="text-align: right;">3</td> </tr> <tr> <td>Assessor 3</td> <td style="text-align: right;">[grade]</td> <td style="text-align: right;">3-4</td> </tr> <tr> <td>Median</td> <td style="text-align: right;">[grade]</td> <td style="text-align: right;">3-4</td> </tr> </table> • Appearance change 25'000 cycles (if dominant: attribute) <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 40%;">Assessor 1</td> <td style="width: 15%; text-align: right;">[grade]</td> <td style="width: 45%; text-align: right;">3.5</td> </tr> <tr> <td>Assessor 2</td> <td style="text-align: right;">[grade]</td> <td style="text-align: right;">3.0</td> </tr> <tr> <td>Assessor 3</td> <td style="text-align: right;">[grade]</td> <td style="text-align: right;">3.0</td> </tr> <tr> <td>Median</td> <td style="text-align: right;">[grade]</td> <td style="text-align: right;">3.0</td> </tr> <tr> <td>Mean value</td> <td style="text-align: right;">[grade]</td> <td style="text-align: right;">3.2</td> </tr> </table> • Index of colour change 25'000 cycles <table style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 40%;">Assessor 1</td> <td style="width: 15%; text-align: right;">[grade]</td> <td style="width: 45%; text-align: right;">3-4</td> </tr> <tr> <td>Assessor 2</td> <td style="text-align: right;">[grade]</td> <td style="text-align: right;">3</td> </tr> <tr> <td>Assessor 3</td> <td style="text-align: right;">[grade]</td> <td style="text-align: right;">3</td> </tr> <tr> <td>Median</td> <td style="text-align: right;">[grade]</td> <td style="text-align: right;">3</td> </tr> </table> • Damages by treatment • Castor chair index • Castor chair suitability 	Assessor 1	[grade]	3.5	Assessor 2	[grade]	3.5	Assessor 3	[grade]	3.0	Median	[grade]	3.5	Mean value	[grade]	3.3	Assessor 1	[grade]	3-4	Assessor 2	[grade]	3	Assessor 3	[grade]	3-4	Median	[grade]	3-4	Assessor 1	[grade]	3.5	Assessor 2	[grade]	3.0	Assessor 3	[grade]	3.0	Median	[grade]	3.0	Mean value	[grade]	3.2	Assessor 1	[grade]	3-4	Assessor 2	[grade]	3	Assessor 3	[grade]	3	Median	[grade]	3	<p>single swivel castor Type H double sided adhesive tape ISO - B</p> <p style="text-align: right;">none</p> <p style="text-align: right;">3.4</p> <p style="text-align: right;">suitable for intensive use</p>
Assessor 1	[grade]	3.5																																																					
Assessor 2	[grade]	3.5																																																					
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Median	[grade]	3																																																					
<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 • Assessment 	<p style="text-align: right;">4.0</p> <p style="text-align: right;">low</p> <p style="text-align: right;">suitable for intensive use</p>																																																						

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<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;">sheets material</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>Static Electrical Propensity - Walking Test ISO 6356</p> <ul style="list-style-type: none"> • Testing climate <ul style="list-style-type: none"> Temperature [°C] Air humidity [%] • Underlay • Sole-material • Pretreatment • Body-Voltage supplied condition <ul style="list-style-type: none"> 1. Measurement [kV] 2. Measurement [kV] 3. Measurement [kV] Mean value [kV] • Assessment according to EN 14041:2007 	<p style="text-align: center;">23</p> <p style="text-align: center;">25</p> <p style="text-align: center;">insulating rubber mat</p> <p style="text-align: center;">XS-664P Neolite</p> <p style="text-align: center;">none</p> <p style="text-align: center;">- 2,3</p> <p style="text-align: center;">- 1,8</p> <p style="text-align: center;">- 1,6</p> <p style="text-align: center;">- 1,9</p> <p style="text-align: center;">antistatic</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	[%]	- 0.1
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
• 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	[%]	± 0.0
2. Measurement cross direction	[%]	- 0.1
3. Measurement cross direction	[%]	± 0.0
Mean value cross direction	[%]	± 0.0
• 4. Treatment - 48 hours storage at standard atmosphere		
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
• Vertical distortion out of plane	[mm]	0.0
• Description of the final appearance		none
• Measurement uncertainty	[%]	14.94

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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End of Report