



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 / 14.05.2020 / atad

Test Report VN720 168442.2

Application

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

Test Material

"Una Brick 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, 14.05.2020
Number Of Included Pages: 10

OETI - Institute for Ecology, Technology and Innovation GmbH

A handwritten signature in blue ink that reads 'i.v. Vittek'.

Ing. Hannes Vittek

Manager Flooring Technology & Interior Design



ÖTI - Institut für Ökologie, Technik und Innovation GmbH | Spengergasse 20, 1050 Vienna, Austria
tel +43 1 5442543-0 | e-mail office@oeti.at | www.oeti.at | FN 326826b | VAT No. ATU65149029
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1 Application

Date of Order	Scope of Order
13.02.2020	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 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 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 B) Resistance To Fraying - EN ISO 10833 Static Electrical Propensity - Walking Test - ISO 6356

2 Samples

No.	Receipt	Sample Identification
1	17.02.2020	"Una Brick WT"

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

3 Tests Performed / Results

		#1 "Una Brick WT"
Summarized test report		
EN 1307 Annex B		
• Identification, basic information		
Product name		"Una Brick WT"
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
Colouration		Multicolored unpatterned (according to B.2.5: C3)
Dimensions		Rolls
Fibers of pile		100% Polyamide (according to the applicant)
• Construction		
Total mass	[g/m ²]	1600
Total thickness	[mm]	2.8
• Appearance change		
Vettermann-drum test, short time testing		4.0
Vettermann-drum test, long time testing		4.0
• Classification according EN 1307		
Basic requirements		fulfilled
Abrasion resistance		Class 33
General structural integrity		no damage
Change in appearance		Class 33
Use class		Class 33
Additional mandatory requirements		LC1
• Additional properties		
Castor chair suitability		suitable for intensive use
Stair suitability		suitable for commercial use
Fraying resistance		resistant to fraying
Body-Voltage, walking test	[kV]	-1.5
Assessment according to EN 14041:2007		antistatic
Dimensional stability (max. change)	[%]	-0.9

#1 "Una Brick WT"

<p>Description Of Specimen - Textile Floor Coverings EN 1307</p> <ul style="list-style-type: none"> • Manufacturing procedure • Structure of face side • Colouration of the surface • Type of backing • Type of fibres at face side • Dimensions • Description according to standard 	<p style="text-align: center;">Woven Flat Multicolored unpatterned Textile backing 100% Polyamide (according to the applicant) Rolls Textile floor covering without pile</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] 	<p style="text-align: center;">4 20 65 1600 4.0 103</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] 	<p style="text-align: center;">4 20 65 2.8 0.0 0</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	[%]	- 0.3
2. Measurement length direction	[%]	- 0.3
3. Measurement length direction	[%]	- 0.3
Mean value length direction	[%]	- 0.3
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	[%]	- 0.1
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	[%]	- 0.8
2. Measurement length direction	[%]	- 0.9
3. Measurement length direction	[%]	- 0.9
Mean value length direction	[%]	- 0.9
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	[%]	- 0.6
2. Measurement length direction	[%]	- 0.6
3. Measurement length direction	[%]	- 0.6
Mean value length direction	[%]	- 0.6
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]	2.0

#1 "Una Brick WT"

<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 style="text-align: center;">4 200 4.5</p>
<p>Basic requirements EN 1307 - Textile floor covering without pile</p> <ul style="list-style-type: none"> • Colour fastness • Dimensional change - ISO 2551 - shrinkage [%] • Dimensional change - ISO 2551 - lengthening [%] • Hairiness / Pilling - EN 1963 Method D [grade] • Basic requirements 	<p style="text-align: center;">Conformity has to be declared by the manufacturer for each colour. - 0.9 -- 4.5 fulfilled</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 • Mass loss per unit area • Tretadindex 	<p style="text-align: center;">4 no mass loss --</p>
<p>General Structural Integrity EN 985 Method C</p> <ul style="list-style-type: none"> • Specimen fixation • Castors • Damages by treatment • - After 10 000 cycles • - After 25 000 cycles 	<p style="text-align: center;">Double sided adhesive tape Single swivel castor, type H none none</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) <table style="width: 100%; border-collapse: collapse;"> <tr><td style="width: 60%;">Assessor 1</td><td style="width: 10%; text-align: center;">[grade]</td><td style="width: 30%;"></td></tr> <tr><td>Assessor 2</td><td style="text-align: center;">[grade]</td><td></td></tr> <tr><td>Assessor 3</td><td style="text-align: center;">[grade]</td><td></td></tr> <tr><td>Median</td><td style="text-align: center;">[grade]</td><td></td></tr> <tr><td>Mean value</td><td style="text-align: center;">[grade]</td><td></td></tr> </table> • Index of colour change 5'000 cycles <table style="width: 100%; border-collapse: collapse;"> <tr><td style="width: 60%;">Assessor 1</td><td style="width: 10%; text-align: center;">[grade]</td><td style="width: 30%;"></td></tr> <tr><td>Assessor 2</td><td style="text-align: center;">[grade]</td><td></td></tr> <tr><td>Assessor 3</td><td style="text-align: center;">[grade]</td><td></td></tr> <tr><td>Median</td><td style="text-align: center;">[grade]</td><td></td></tr> </table> • Appearance change 20'000 cycles (if dominant: attribute) <table style="width: 100%; border-collapse: collapse;"> <tr><td style="width: 60%;">Assessor 1</td><td style="width: 10%; text-align: center;">[grade]</td><td style="width: 30%;"></td></tr> <tr><td>Assessor 2</td><td style="text-align: center;">[grade]</td><td></td></tr> <tr><td>Assessor 3</td><td style="text-align: center;">[grade]</td><td></td></tr> <tr><td>Median</td><td style="text-align: center;">[grade]</td><td></td></tr> <tr><td>Mean value</td><td style="text-align: center;">[grade]</td><td></td></tr> </table> • Index of colour change 20'000 cycles <table style="width: 100%; border-collapse: collapse;"> <tr><td style="width: 60%;">Assessor 1</td><td style="width: 10%; text-align: center;">[grade]</td><td style="width: 30%;"></td></tr> <tr><td>Assessor 2</td><td style="text-align: center;">[grade]</td><td></td></tr> <tr><td>Assessor 3</td><td style="text-align: center;">[grade]</td><td></td></tr> <tr><td>Median</td><td style="text-align: center;">[grade]</td><td></td></tr> </table> • Damages by treatment 	Assessor 1	[grade]		Assessor 2	[grade]		Assessor 3	[grade]		Median	[grade]		Mean value	[grade]		Assessor 1	[grade]		Assessor 2	[grade]		Assessor 3	[grade]		Median	[grade]		Assessor 1	[grade]		Assessor 2	[grade]		Assessor 3	[grade]		Median	[grade]		Mean value	[grade]		Assessor 1	[grade]		Assessor 2	[grade]		Assessor 3	[grade]		Median	[grade]		ISO-A 4.0 4.0 4.5 4.0 4.2 3-4 4 3-4 3-4 4.0 4.0 4.5 4.0 4.2 4 4 4 4 none
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<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 • Appearance change - long time test • Level of use classification • Luxury-Class 	no mass loss no damage no damage 4.0 4.0 33 LC1																																																						

Castor Chair Suitability Of Textile Floor Coverings EN 985 Method A / ISO 9405																																																							
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Suitability For Use On Stairs EN ISO 12951, Test B (EN 1963, Test B)																																																							
<ul style="list-style-type: none"> • Number of specimen • Median of appearance change in the edge area [grade] • Assessment 	4 low suitable for commercial use																																																						

#1 "Una Brick WT"

<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 • Note • Assessment 	<p style="text-align: center;">4 sheets material</p> <p style="text-align: center;">none none none none</p> <p>slight roughening in the area of the cut edge 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 25</p> <p style="text-align: center;">rubber on metal plate XS 664P Neolite none</p> <p style="text-align: center;">- 1.4 - 1.6 - 1.6 - 1.5</p> <p style="text-align: center;">antistatic</p>

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