



EGETAEPER A/S
Industrivej Nord 25
7400 Herning
Denmark

Your Reference
Customer Number 40201
Contact Person Weissenborn Lene
E-Mail lbm@ege.dk

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Test Report VN720 156442.2

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 Stripe 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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OETI - Institute for Ecology, Technology and Innovation GmbH

A handwritten signature in blue ink, appearing to read "H. 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
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 Stripe ECT350"

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

3 Tests Performed / Results

		#1 "Una Tempo Stripe ECT350"
Summarized test report EN 1307 Annex B		
• Identification, basic information		
Product name		"Una Tempo Stripe 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 ²]	2 693
Pile mass above the substrate	[g/m ²]	294
Total thickness	[mm]	6,9
Thickness of pile layer	[mm]	2,9
Surface pile density	[g/cm ³]	0,101
Number of tufts or loops per dm ²		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 Stripe ECT350"

Specific requirements of tiles EN 1307 Annex A		
• Total mass of individual tile	[kg]	0,545
• Total weight per unit area	[kg/m ²]	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 Stripe ECT350"

Description Of Specimen - Textile Floor Coverings 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
Mass Per Unit Area ISO 8543 Textile Floor Coverings		
• Number of specimen		4
• Conditioning		
Temperature	[°C]	20
Air humidity	[%]	65
• Total mass		
Mean value	[g/m ²]	2 693
Coefficient of variation	[%]	3,9
Confidence intervall (95%) abs. width	[g/m ²]	165

Mass Per Unit Area ISO 8543 Pile Layer Of Textile Floor Coverings	
<ul style="list-style-type: none"> • Number of specimen 4 • Conditioning <ul style="list-style-type: none"> Temperature [°C] 20 Air humidity [%] 65 • Total mass of pile <ul style="list-style-type: none"> Mean value [g/m²] 294 Coefficient of variation [%] 3,2 Confidence intervall (95%) abs. width [g/m²] 15 	
Thickness Of Textile Floor Coverings ISO 1765	
<ul style="list-style-type: none"> • Number of specimen 4 • Conditioning <ul style="list-style-type: none"> Temperature [°C] 20 Air humidity [%] 65 • Thickness <ul style="list-style-type: none"> Mean value [mm] 6,6 Coefficient of variation [%] 0,3 Confidence intervall (95%) abs. width [mm] 0,1 	
Thickness Wear Layer Of Textile Floor Coverings ISO 1766	
<ul style="list-style-type: none"> • Number of specimen 4 • Conditioning <ul style="list-style-type: none"> Temperature [°C] 20 Air humidity [%] 65 • Shearing methode • Thickness of wear layer <ul style="list-style-type: none"> Mean value [mm] 2,9 Coefficient of variation [%] 0,5 Confidence intervall (95%) abs. width [mm] 0,1 	
Pile Density ISO 8543	
<ul style="list-style-type: none"> • Pile material 100% Polyamide • Density of pile material [g/cm³] 1,14 • Mass of pile per unit area [g/m²] 294 • Thickness of pile layer [mm] 2,9 • Surface pile density [g/cm³] 0,101 • Relative surface pile density [%] 8,9 	

Number Of Tufts Or Loops ISO 1763	
<ul style="list-style-type: none"> • Number of specimen • Number of tufts or loops / 10 cm <ul style="list-style-type: none"> Longitudinal direction Cross direction • Number of tufts or loops per dm² • Number of tufts or loops per m² 	<p>4</p> <p>41,0</p> <p>39,4</p> <p>1 615</p> <p>161 500</p>
Fibrebind EN ISO 12951, Test C (EN 1963, Test C)	
<ul style="list-style-type: none"> • Number of specimen • Duration [cycles] • Appearance change compared to photostandard 	<p>4</p> <p>400</p> <p>better</p>
Basic requirements EN 1307 - Textile floor covering with loop pile	
<ul style="list-style-type: none"> • Fibre bind - Loop pile - EN 1963 Methode C • Basic requirements 	<p>better</p> <p>fulfilled</p>
Changes in Appearance - Drum Test ISO 10361 Method A / EN ISO 9405	
<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] Assessor 2 [grade] Assessor 3 [grade] Median [grade] Mean value [grade] • Index of colour change 5'000 cycles <ul style="list-style-type: none"> Assessor 1 [grade] Assessor 2 [grade] Assessor 3 [grade] Median [grade] • Appearance change 20'000 cycles (if dominant: attribute) <ul style="list-style-type: none"> Assessor 1 [grade] Assessor 2 [grade] Assessor 3 [grade] Median [grade] Mean value [grade] • Index of colour change 20'000 cycles <ul style="list-style-type: none"> Assessor 1 [grade] Assessor 2 [grade] Assessor 3 [grade] Median [grade] • Damages by treatment 	<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>Classification EN 1307 - Textile floor covering with pile</p> <ul style="list-style-type: none"> • Appearance change - short time test [grade] 4,5 • Appearance change - long time test [grade] 3,5 • Level of use classification Class 33 • Comfort-Class LC1 	
<p>Mass Per Unit Area ISO 8543 Total Mass Of The Single Tile</p> <ul style="list-style-type: none"> • Number of specimen 4 • Conditioning <ul style="list-style-type: none"> Temperature [°C] 20 Air humidity [%] 65 • Total mass of tiles <ul style="list-style-type: none"> Mean value [kg] 0,545 Coefficient of variation [%] 1,8 Confidence intervall (95%) abs. width [kg] 0,016 	
<p>Side Length, Squareness, Straightness EN 994 - Textile Floorcoverings</p> <ul style="list-style-type: none"> • Number of specimen 5 • Nominal dimension <ul style="list-style-type: none"> Length [mm] 480 Width [mm] 480 • Determination of dimensions length <ul style="list-style-type: none"> Mean length [mm] 480,1 Min. average length [mm] 480,0 Max. average length [mm] 480,1 Diff. between the smallest and the largest average length [mm] 0,1 Max. deviation from mean length [%] < 0,1 Max. deviation from nominal dimension [%] 0,0 • Determination of dimensions width <ul style="list-style-type: none"> Mean length [mm] 480,1 Min. average length [mm] 480,0 Max. average length [mm] 480,2 Diff. between the smallest and the largest average length [mm] 0,2 Max. deviation from mean length [%] < 0,1 Max. deviation from nominal dimension [%] 0,0 • Squareness and staightness <ul style="list-style-type: none"> Max. deviation [mm] < 0,20 Max. percentage deviation [%] < 0,04 	

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>Resistance To Fraying EN 1814</p> <ul style="list-style-type: none"> • Number of specimen • Kind of test sample • Description of cut edge after treatment <ul style="list-style-type: none"> Delamination Fraying Tuft loss / sprouting Thread puller Release of fibers from the pile material • Assessment 	<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>Castor Chair Suitability Of Textile Floor Coverings EN 985 Methode A / ISO 9405</p> <ul style="list-style-type: none"> • Castors • Specimen fixation • Used scale • Appearance change 5'000 cycles (if dominant: attribute) <ul style="list-style-type: none"> Assessor 1 [grade] Assessor 2 [grade] Assessor 3 [grade] Median [grade] Mean value [grade] • Index of colour change 5'000 cycles <ul style="list-style-type: none"> Assessor 1 [grade] Assessor 2 [grade] Assessor 3 [grade] Median [grade] • Appearance change 25'000 cycles (if dominant: attribute) <ul style="list-style-type: none"> Assessor 1 [grade] Assessor 2 [grade] Assessor 3 [grade] Median [grade] Mean value [grade] • Index of colour change 25'000 cycles <ul style="list-style-type: none"> Assessor 1 [grade] Assessor 2 [grade] Assessor 3 [grade] Median [grade] • Damages by treatment • Castor chair index • Castor chair suitability 	<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>Suitability For Use On Stairs EN ISO 12951, Test B (EN 1963, Test B)</p> <ul style="list-style-type: none"> • Number of specimen • Median of appearance change in the edge area [grade] • Assessment 	<p style="text-align: center;">4</p> <p style="text-align: center;">low</p> <p style="text-align: center;">suitable for intensive use</p>
<p>Static Electrical Propensity - Walking Test ISO 6356</p> <ul style="list-style-type: none"> • Number of specimen • 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] • Judgement according to EN 14041:2007 	<p style="text-align: center;">1</p> <p style="text-align: center;">23</p> <p style="text-align: center;">25</p> <p style="text-align: center;">Rubber on metal plate XS-664P Neolite</p> <p style="text-align: center;">none</p> <p style="text-align: center;">- 0.2</p> <p style="text-align: center;">- 0,4</p> <p style="text-align: center;">- 0,4</p> <p style="text-align: center;">- 0,3</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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