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Test Report VN720 197672.2

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 and dimension stability.

Test Material
"Eco Pro wt"

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 - Institut fuer Oekologie, Technik und Innovation GmbH

Günther Sereinig
Customer Service Officer

1 Application

Date of Order	Scope of Order
12.01.2022	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 - 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 Resistance To Fraying - EN ISO 10833 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) Horizontal Resistance - ISO 10965 Vertical Resistance - ISO 10965 Static Electrical Propensity - Walking Test - ISO 6356

2 Samples

No.	Receipt	Sample Identification
1	12.01.2022	"Eco Pro WT"

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

3 Tests Performed / Results

		#1 "Eco Pro WT"
Summarized test report 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
Colouration		multicolored unpatterned (according to B.2.5: C3)
Dimensions		Rolls
Fibers of pile		100% Polyamide (according to the applicant)
• Construction		
Total mass	[g/m²]	2132
Total thickness	[mm]	4.3
• 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		LC 1
• Additional properties		
Fraying resistance		resistant to fraying
Castor chair suitability		suitable for intensive use
Stair suitability		suitable for commercial use
Body-Voltage, walking test	[kV]	-1.1
Assessment according to EN 14041:2007		antistatic
Vertical resistance	[Ω]	$1{,}4 \times 10^{12}$
Horizontal resistance	[Ω]	$3{,}4 \times 10^{12}$
Dimensional stability (max. change)	[%]	-0.4

		#1 "Eco Pro WT"
Description Of Specimen - Textile Floor Coverings EN 1307 *		
• Manufacturing procedure		woven
• Structure of face side		flat
• Primary backing		none
• Colouration of the surface		multicoloured unpatterned
• Type of backing		textile backing
• Dimensions		rolls
• Description according to standard		textile floor covering without pile according to EN 1307
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/m²]	2042
Coefficient of variation	[%]	1.9
Confidence interval (95%) abs. width	[g/m²]	62
• Measurement uncertainty	[%]	0.15
Thickness Of Textile Floor Coverings ISO 1765		
• Number of specimen		4
• Conditioning		
Temperature	[°C]	20
Air humidity	[%]	65
• Thickness		
Mean value	[mm]	4.0
Coefficient of variation	[%]	0.0
Confidence interval (95%) abs. width	[mm]	0.0
• Measurement uncertainty	[%]	0.74
Fibrebind - Pilling EN ISO 12951, Test D (EN 1963, Test D)		
• Number of specimen		4
• Duration	[double cycles]	200
• Median	[grade]	4.5

		#1 "Eco Pro WT"
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	[%]	- 0.2
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	[%]	± 0.0
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	[%]	± 0.0
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	[%]	- 0.3
2. Measurement length direction	[%]	- 0.4
3. Measurement length direction	[%]	- 0.5
Mean value length direction	[%]	- 0.4
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	[%]	- 0.4
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
• Vertical distortion out of plane	[mm]	0
• Description of the final appearance		none
• Measurement uncertainty	[%]	14.94

		#1 "Eco Pro WT"
Basic requirements EN 1307 - Textile floor covering without pile *		
• Dimensional change - ISO 2551 - shrinkage	[%]	- 0.4
• Dimensional change - ISO 2551 - lengthening	[%]	--
• Hairiness / Pilling - EN 1963 Method D	[grade]	4.5
• Basic requirements		fulfilled
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/m²]	9
Coefficient of variation	[%]	29.7
Confidence interval (95%) abs. width	[g/m²]	4
• Tretradindex		--
General Structural Integrity EN 985 Method C		
• Number of specimen		1
• Specimen fixation		Double sided adhesive tape
• Castors		Single swivel castor, Type H
• Damages by treatment		--
• - After 10 000 cycles		none
• - After 25 000 cycles		none

		#1 "Eco Pro WT"
Changes in Appearance - Drum Test ISO 10361 Method A / EN ISO 9405		
• Used scale		ISO-A
• Appearance change 5'000 cycles (if dominant: attribute)		
Assessor 1	[grade]	5.0
Assessor 2	[grade]	5.0
Assessor 3	[grade]	5.0
Median	[grade]	5.0
Mean value	[grade]	5.0
• Index of colour change 5'000 cycles		
Assessor 1	[grade]	5
Assessor 2	[grade]	5
Assessor 3	[grade]	5
Median	[grade]	5
• Appearance change 20'000 cycles (if dominant: attribute)		
Assessor 1	[grade]	4.5
Assessor 2	[grade]	4.5
Assessor 3	[grade]	4.5
Median	[grade]	4.5
Mean value	[grade]	4.5
• Index of colour change 20'000 cycles		
Assessor 1	[grade]	4-5
Assessor 2	[grade]	4-5
Assessor 3	[grade]	4-5
Median	[grade]	4-5
• Damages by treatment		none
Classification EN 1307 - Textile floor covering without pile *		
• Abrasion resistance		9
• General strucutral integrity - 10 000 turns		no damage
• General strucutral integrity - 25 000 turns		no damage
• Appearance change - short time test	[grade]	5.0
• Appearance change - long time test	[grade]	4.5
• Level of use classification		Class 33
• Luxury-Class		LC 1
Resistance To Fraying EN ISO 10833		
• Number of specimen		4
• Kind of test sample		sheets material
• Unnacceptable changes		
Specimen 1		Heavy roughening in the area of the cutting edge
Specimen 2		Heavy roughening in the area of the cutting edge
Specimen 3		Heavy roughening in the area of the cutting edge
Specimen 4		Heavy roughening in the area of the cutting edge
• Assessment		resistant to fraying

		#1 "Eco Pro WT"
Castor Chair Suitability Of Textile Floor Coverings EN 985 Method A / ISO 9405		
• Castors		Single swivel castor, Type H
• Specimen fixation		Double sided adhesive tape
• Used scale		ISO-A
• Appearance change 5'000 cycles (if dominant: attribute)		
Assessor 1	[grade]	5.0
Assessor 2	[grade]	5.0
Assessor 3	[grade]	5.0
Median	[grade]	5.0
Mean value	[grade]	5.0
• Index of colour change 5'000 cycles		
Assessor 1	[grade]	4-5
Assessor 2	[grade]	4-5
Assessor 3	[grade]	4-5
Median	[grade]	4-5
• Appearance change 25'000 cycles (if dominant: attribute)		
Assessor 1	[grade]	4.5
Assessor 2	[grade]	4.5
Assessor 3	[grade]	4.5
Median	[grade]	4.5
Mean value	[grade]	4.5
• Index of colour change 25'000 cycles		
Assessor 1	[grade]	4
Assessor 2	[grade]	4
Assessor 3	[grade]	4
Median	[grade]	4
• Damages by treatment		none
• Castor chair index		4.9
• Castor chair suitability		suitable for intensive use
Suitability For Use On Stairs EN ISO 12951, Test B (EN 1963, Test A+B) *		
• Number of specimen		4
• Median of appearance change in the edge area	[grade]	low
• Assessment		suitable for commercial use

		#1 "Eco Pro WT"
Horizontal Resistance ISO 10965		
• Number of specimen		3
• Conditioning		
Temperature	[°C]	23
Air humidity	[%]	25
• Measuring voltage	[V]	500
• Horizontal resistance		
Specimen 1 1st measurement	[Ω]	1.8×10^{12}
Specimen 1 2nd measurement	[Ω]	3.3×10^{12}
Specimen 2 1st measurement	[Ω]	4.8×10^{12}
Specimen 2 2nd measurement	[Ω]	3.2×10^{12}
Specimen 3 1st measurement	[Ω]	4.6×10^{12}
Specimen 3 2nd measurement	[Ω]	3.4×10^{12}
Geom. Mean value	[Ω]	3.4×10^{12}
Vertical Resistance ISO 10965		
• Number of specimen		3
• Conditioning		
Temperature	[°C]	23
Air humidity	[%]	25
• Measuring voltage	[V]	500
• Vertical resistance		
Specimen 1 1st measurement	[Ω]	1.4×10^{12}
Specimen 1 2nd measurement	[Ω]	1.5×10^{12}
Specimen 2 1st measurement	[Ω]	1.7×10^{12}
Specimen 2 2nd measurement	[Ω]	1.4×10^{12}
Specimen 3 1st measurement	[Ω]	1.4×10^{12}
Specimen 3 2nd measurement	[Ω]	1.2×10^{12}
Geom. Mean value	[Ω]	1.4×10^{12}
Static Electrical Propensity - Walking Test ISO 6356		
• Number of specimen		1
• Testing climate		
Temperature	[°C]	23
Air humidity	[%]	25
• Underlay		Insulating rubber mat
• Sole-material		XS-664P Neolite
• Pretreatment		none
• Body-Voltage supplied condition		
1. Measurement	[kV]	- 1,2
2. Measurement	[kV]	- 1,0
3. Measurement	[kV]	- 1,0
Mean value	[kV]	- 1,1
• 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.

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All results except “Resistance to Fraying” are taken from report 197672.1 dated 17.03.2022. 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. 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.

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