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Vienna / 17.02.2022 / atad

Test Report VN720 197673.1

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
"Eco Rustic 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, 17.02.2022
Number Of Included Pages: 10

OETI - Institute for Ecology, Technology and Innovation GmbH

Atena Adineh
Customer Service Officer

1 Application

Date of Order	Scope of Order
11.01.2022	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 Rustic WT"

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

3 Tests Performed / Results

		#1 "Eco Rustic 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]	1.828
Total thickness	[mm]	3.3
• Appearance change		
Vettermann-drum test, short time testing		5.0
Vettermann-drum test, long time testing		5.0
• Classification according EN 1307		
Basic requirements		fulfilled
Change in appearance		Class 33
Use class		Class 33
Luxury-Class		LC 1
• 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]	-1.2
Assessment according to EN 14041:2007		antistatic
Vertical resistance	[Ω]	2.7×10^{12}
Horizontal resistance	[Ω]	$4{,}2 \times 10^{12}$
Dimensional stability (max. change)	[%]	-0.3

		#1 "Eco Rustic WT"
Description Of Specimen - Textile Floor Coverings EN 1307 *		
• Manufacturing procedure		woven
• Structure of face side		flat
• Colouration of the surface		multicoloured unpatterned
• Type of backing		textile backing
• Type of fibres at face side		100% Polyamide
• 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]	1.828
Coefficient of variation	[%]	2.5
Confidence interval (95%) abs. width	[g/m²]	73
• 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]	3.3
Coefficient of variation	[%]	0.3
Confidence interval (95%) abs. width	[mm]	0.1
• 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 Rustic 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	[%]	-0.1
2. Measurement length direction	[%]	-0.1
3. Measurement length direction	[%]	-0.1
Mean value length direction	[%]	-0.1
1. Measurement cross direction	[%]	-0.1
2. Measurement cross direction	[%]	-0.1
3. Measurement cross direction	[%]	-0.1
Mean value cross direction	[%]	-0.1
• 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	[%]	-0.1
2. Measurement cross direction	[%]	-0.1
3. Measurement cross direction	[%]	-0.1
Mean value cross direction	[%]	-0.1
• 3. Treatment - 24 hours storage (drying) at 60°C		
1. Measurement length direction	[%]	-0.2
2. Measurement length direction	[%]	-0.3
3. Measurement length direction	[%]	-0.3
Mean value length direction	[%]	-0.3
1. Measurement cross direction	[%]	-0.3
2. Measurement cross direction	[%]	-0.3
3. Measurement cross direction	[%]	-0.3
Mean value cross direction	[%]	-0.3
• 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	[%]	-0.2
2. Measurement cross direction	[%]	-0.2
3. Measurement cross direction	[%]	-0.2
Mean value cross direction	[%]	-0.2
• Vertical distortion out of plane	[mm]	0
• Description of the final appearance		none
• Measurement uncertainty	[%]	14.94

		#1 "Eco Rustic WT"
Basic requirements EN 1307 - Textile floor covering without pile *		
• Dimensional change - ISO 2551 - shrinkage	[%]	- 0.3
• 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]	8
Coefficient of variation	[%]	21.8
Confidence interval (95%) abs. width	[g/m²]	3
• 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		--
• - After 25 000 cycles		--

		#1 "Eco Rustic 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]	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 20'000 cycles		
Assessor 1	[grade]	5
Assessor 2	[grade]	4 - 5
Assessor 3	[grade]	4 - 5
Median	[grade]	4 - 5
• Damages by treatment		--
Classification EN 1307 - Textile floor covering without pile *		
• Abrasion resistance		8
• 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]	5.0
• Level of use classification		Class 33
• Luxury-Class		LC 1

		#1 "Eco Rustic 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]	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 5'000 cycles		
Assessor 1	[grade]	4
Assessor 2	[grade]	4
Assessor 3	[grade]	4
Median	[grade]	4
• Appearance change 25'000 cycles (if dominant: attribute)		
Assessor 1	[grade]	4.0
Assessor 2	[grade]	4.0
Assessor 3	[grade]	4.0
Median	[grade]	4.0
Mean value	[grade]	4.0
• Index of colour change 25'000 cycles		
Assessor 1	[grade]	3
Assessor 2	[grade]	3
Assessor 3	[grade]	3 - 4
Median	[grade]	3
• Damages by treatment		none
• Castor chair index		4.4
• 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		4.0
• Median of appearance change in the edge area	[grade]	low
• Assessment		suitable for commercial use
Resistance To Fraying EN ISO 10833		
• Number of specimen		4
• Kind of test sample		sheets material
• Unnacceptable changes		
Specimen 1		--
Specimen 2		very low roughing in the area of cut edge
Specimen 3		--
Specimen 4		very low roughing in the area of cut edge
• Note		--
• Assessment		resistant to fraying

#1 "Eco Rustic 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]	$4{,}4 \times 10^{12}$
Specimen 1 2nd measurement	[Ω]	$3{,}6 \times 10^{12}$
Specimen 2 1st measurement	[Ω]	$4{,}9 \times 10^{12}$
Specimen 2 2nd measurement	[Ω]	$4{,}2 \times 10^{12}$
Specimen 3 1st measurement	[Ω]	$3{,}8 \times 10^{12}$
Specimen 3 2nd measurement	[Ω]	$4{,}2 \times 10^{12}$
Geom. Mean value	[Ω]	$4{,}2 \times 10^{12}$
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]	$3{,}4 \times 10^{12}$
Specimen 1 2nd measurement	[Ω]	$2{,}0 \times 10^{12}$
Specimen 2 1st measurement	[Ω]	$3{,}2 \times 10^{12}$
Specimen 2 2nd measurement	[Ω]	$4{,}0 \times 10^{12}$
Specimen 3 1st measurement	[Ω]	$2{,}3 \times 10^{12}$
Specimen 3 2nd measurement	[Ω]	$2{,}0 \times 10^{12}$
Geom. Mean value	[Ω]	$2{,}7 \times 10^{12}$
• Assessment according to EN 14041:2007		none
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]	- 1,3
2. Measurement	[kV]	- 1,0
3. Measurement	[kV]	- 1,4
Mean value	[kV]	- 1,2
• Assessment according to EN 14041:2007		**antistatic**

4 Remarks

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