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Test Report VN720 155327.1

Application

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

Test Material

"Epoca Compact 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 - Institute for Ecology, Technology and Innovation GmbH

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Manager Flooring Technology & Interior Design







1 Application

і Арріісаціон		
Date of Order	Scope of Order	
13.05.2019	Summarized test report - EN 1307 Annex B	
	Description Of Specimen - Textile Floor Coverings - EN 1307	
	Mass Per Unit Area - ISO 8543 Textile Floor Coverings	
	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 Methode C	
	Changes in Appearance - Drum Test - ISO 10361 Method A / ISO 9405	
	Classification - EN 1307 - Textile floor covering without pile	
	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	
	Resistance To Fraying - EN 1814	

2 Samples

No.	Receipt	Sample Identification
1	21.05.2019	"Epoca Compact wt"

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



3 Tests Performed / Results

Summarized test report EN 1307 Annex B • Identification, basic information Product name Type of face side Manufacturing procedure Backing Type of floor covering Colouration Dimensions Fibres of pile • Construction Total mass Total thickness • Appearance change Vetterman-drum test, short time testing Vetterman-drum test, tong time testing • Classification according EN 1307 Basic requirements Abrastion resistance General structual integrity Change in appearance Use class Castor chair suitability Stair suitability Fraying resistance Body-Voltage, walking test Judgement according to B. 2.2: A2) Woven (according to B.2.1: M1) Textile Backing (according to B.2.1: S10) Floor covering without pile multicolored unpattemed Proor covering without pile multicolored unpattemed 100% Polyamide 2'158 100% Polyamide 5.0 4.0 4.0 4.5 5.0 Class 33 LC1 *Additional properties Castor chair suitability Stair suitability Fraying resistance Body-Voltage, walking test Judgement according to EN 14041		-	Lpoca Compact wt
Identification, basic information Product name Type of face side Manufacturing procedure Backing Type of floor covering Colouration Dimensions Fibres of pile Construction Total mass Total thickness Appearance change Vetterman-drum test, short time testing Vetterman-drum test, long time testing Classification according EN 1307 Basic requirements Abrastion resistance General structual integrity Change in appearance Use class Castor chair suitability Stair suitability Flat (according to B.2.2: A2) Woven (according to B.2.2: MI) Textile Backing (according to B.2.4: S10) Floor covering without pile multicolored unpatterned Rolls 100% Polyamide 2'158 100% Polyamide 5.0 Vetterman-drum test, short time testing 4.0 5.0 Vetterman-drum test, long time testing 4.5 Class 33 Class 35 Class 35 Class 35 Class 36 Class 36 Class 37 Class 37 Class 38 Comfort-Class • Additional properties Castor chair suitability Stair suitability Fraying resistance Body-Voltage, walking test [kV] -0.9			
Product name Type of face side Manufacturing procedure Backing Type of floor covering Colouration Dimensions Fibres of pile Construction Total mass Total thickness Vetterman-drum test, short time testing Vetterman-drum test, long time testing Classification according EN 1307 Basic requirements Abrastion resistance General structual integrity Change in appearance Use class Castor chair suitability Stair suitability Flat (according to B.2.2: A2) Woven (according to B.2.1: M1) Textile Backing (according to B.2.4: S10) Floor covering without pile multicolored unpatterned Dimensions Rolls Floor covering without pile multicolored unpatterned Dimensions Rolls Floor covering without pile multicolored unpatterned Dimensions Rolls 100% Polyamide 5.0 4.0 4.0 5.0 Class 3 Class 33 Class 33 Class 33 Class 33 Class 33 Class 33 Comfort-Class LC1 *Additional properties Castor chair suitability Stair suitability Stair suitability Fraying resistance Body-Voltage, walking test [kV] -0.9	EN 1307 Annex B		
Type of face side Manufacturing procedure Backing Type of floor covering Colouration Dimensions Fibres of pile Construction Total mass Total thickness Vetterman-drum test, short time testing Vetterman-drum test, short time testing Classification according EN 1307 Basic requirements Abrastion resistance General structual integrity Change in appearance Use class Castor chair suitability Floor covering without pile multicolored unpatterned multicolored unpatterned 100% Polyamide 100% Polyamide 2'158 100% Polyamide 5.0 Vetterman-drum test, short time testing 4.5 Classification according EN 1307 Basic requirements Abrastion resistance General structual integrity Class 33 Comfort-Class LC1 Additional properties Castor chair suitability Stair suitability Fraying resistance Body-Voltage, walking test [kV] Floor covering vito B.2.1: M1) Textile Backing (according to B.2.1: M1) Floor covering without pile multicolored unpatterned 100% Polyamide 100%	Identification, basic information		
Manufacturing procedure Backing Type of floor covering Colouration Dimensions Fibres of pile Construction Total mass Total thickness Total thickness Vetterman-drum test, short time testing Vetterman-drum test, long time testing Classification according EN 1307 Basic requirements Abrastion resistance General structual integrity Change in appearance Use class Castor chair suitability Stair suitability Floor covering to B.2.1: M1) Textile Backing (according to B.2.4: S10) Floor covering without pile multicolored unpatterned 100% Polyamide 2'158 100% Polyamide 5.0 Vetterman-drum test, short time testing 4.0 5.0 Classification according EN 1307 Basic requirements Abrastion resistance General structual integrity Class 33 Class 33 Class 33 Class 33 Class 33 Class 33 LC1 *Additional properties Castor chair suitability Suitable for intensive use resistant to fraying Body-Voltage, walking test [kV] -0.9	Product name		"Epoca Compact wt"
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Type of floor covering Colouration Dimensions Fibres of pile Construction Total mass Total thickness Total thickness Fibres of pile Classification according EN 1307 Basic requirements Abrastion resistance General structual integrity Change in appearance Use class Castor chair suitability Stair suitability Fraying resistance Body-Voltage, walking test Floor covering without pile multicolored unpatterned multicolored unpatterned multicolored unpatterned multicolored unpatterned multicolored unpatterned multicolored unpatterned folis multicolored unpatterned multicolored unpatterned multicolored unpatterned flow multicolored unpatterned multicolored unpatterned flow nutricolored unpatterned flow facilis nutlicolored unpatterned flow facilis nutlicolored unpatterned flow flow facilis nutlicolored unpatterned flow flow flow facilis nutlicolored unpatterned flow flow flow flow flow flow flow flow	Manufacturing procedure		Woven (according to B.2.1: M1)
Colouration Dimensions Fibres of pile Construction Total mass Total thickness	Backing		Textile Backing (according to B.2.4: S10)
Dimensions Fibres of pile Construction Total mass [g/m²] Total thickness [mm] A,0 Appearance change Vetterman-drum test, short time testing Vetterman-drum test, long time testing Classification according EN 1307 Basic requirements Abrastion resistance General structual integrity Change in appearance Use class Comfort-Class Castor chair suitability Stair suitability Stair suitability Fraying resistance Body-Voltage, walking test Rolls 100% Polyamide 100% Polyamide 100% Poly	Type of floor covering		Floor covering without pile
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Vetterman-drum test, short time testing Vetterman-drum test, long time testing • Classification according EN 1307 Basic requirements Abrastion resistance General structual integrity Change in appearance Use class Comfort-Class Castor chair suitability Stair suitability Fraying resistance Body-Voltage, walking test • Additional properties [kV] 5.0 4.5 4.5 4.5 Class 33 Class 33 Class 33 Class 33 LC1 Suitable for intensive use resistant to fraying -0.9	Total thickness	[mm]	4.0
Vetterman-drum test, long time testing Classification according EN 1307 Basic requirements Abrastion resistance General structual integrity Class 33 Change in appearance Use class Comfort-Class Castor chair suitability Stair suitability Fraying resistance Body-Voltage, walking test Fixed in the setting 4.5 4.5 4.5 4.5 4.5 4.5 Addiffilled Class 33 Class 33 Class 33 LC1 Suitable for intensive use Fraying resistance Fraying resistance Body-Voltage, walking test [kV] -0.9	Appearance change		
Classification according EN 1307 Basic requirements Abrastion resistance General structual integrity Class 33 Change in appearance Use class Use class Comfort-Class Castor chair suitability Stair suitability Fraying resistance Body-Voltage, walking test fulfilled Class 33 Class 33 Class 33 Class 33 Custor chair suitability suitable for intensive use resistant to fraying -0.9	Vetterman-drum test, short time testing		5.0
Basic requirements Abrastion resistance Class 33 General structual integrity Class 33 Change in appearance Use class Comfort-Class Comfort-Class Castor chair suitability Stair suitability Fraying resistance Body-Voltage, walking test Class 33 Class 33 LC1 Suitable for intensive use resistant to fraying -0.9	Vetterman-drum test, long time testing		4.5
Abrastion resistance General structual integrity Class 33 Change in appearance Use class Comfort-Class Class 33 Comfort-Class LC1 Additional properties Castor chair suitability Stair suitability Fraying resistance Body-Voltage, walking test Class 33 Class 33 LC1 suitable for intensive use suitable for intensive use resistant to fraying -0.9	Classification according EN 1307		
General structual integrity Class 33 Change in appearance Use class Comfort-Class Castor chair suitability Stair suitability Fraying resistance Body-Voltage, walking test Class 33 Class 33 Class 33 Class 33 Class 33 EC1 Suitable for intensive use resistant to fraying -0.9	Basic requirements		fulfilled
Change in appearance Use class Comfort-Class Comfort-Class • Additional properties Castor chair suitability Stair suitability Fraying resistance Body-Voltage, walking test Class 33 LC1 • Stair suitable for intensive use resistant to fraying -0.9	Abrastion resistance		Class 33
Use class Comfort-Class Additional properties Castor chair suitability Stair suitability Fraying resistance Body-Voltage, walking test Class 33 LC1 suitable for intensive use suitable for intensive use resistant to fraying -0.9	General structual integrity		Class 33
Comfort-Class • Additional properties Castor chair suitability Stair suitability Fraying resistance Body-Voltage, walking test LC1 suitable for intensive use resistant to fraying -0.9	Change in appearance		Class 33
Additional properties Castor chair suitability Stair suitability Fraying resistance Body-Voltage, walking test *Additional properties suitable for intensive use suitable for intensive use resistant to fraying -0.9	Use class		Class 33
Castor chair suitability Stair suitability Stair suitability Suitable for intensive use resistance Fraying resistance Body-Voltage, walking test suitable for intensive use resistant to fraying -0.9	Comfort-Class		LC1
Stair suitability Fraying resistance Body-Voltage, walking test suitable for intensive use resistant to fraying -0.9	Additional properties		
Fraying resistance resistant to fraying Body-Voltage, walking test [kV] -0.9	Castor chair suitability		suitable for intensive use
Body-Voltage, walking test [kV] -0.9	Stair suitability		suitable for intensive use
	Fraying resistance		resistant to fraying
Judgement according to EN 14041 antistatic	Body-Voltage, walking test	[kV]	-0.9
	Judgement according to EN 14041		antistatic



		"Epoca Compact wt"
Description Of Specimen - Textile Floor Coverings EN 1307		
Manufacturing procedure		Woven
Structure of face side		Flat
Coloration of face side		Multicolored unpatterned
Type of backing		Textile backing
Type of fibres at face side		100% Polyamide
• Dimensions		Rolls
Description according to standard		Floor covering without 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/m²]	2'158
Coefficient of variation	[%]	2.0
Confidence intervall (95%) abs. width	[g/m²]	70
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	[%]	0.6
Confidence intervall (95%) abs. width	[mm]	0.1



		"Epoca Compact wt"
Dimension Stability And Curling After Exposure To He ISO 2551 / EN 986	eat And Water	
Number of specimen		3
Deviation from standard		none
• 1. Treatment - 2 hours storage (drying) at 60°C		
Measurement length direction	[%]	- 0,4
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
• 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	[%]	- 0.3
2. Measurement length direction	[%]	- 0,7
3. Measurement length direction	[%]	- 0,8
Mean value length direction	[%]	- 0,6
1. Measurement cross direction	[%]	- 0,4
2. Measurement cross direction	[%]	- 0,3
3. Measurement cross direction	[%]	- 0,4
Mean value cross direction	[%]	- 0,4
• 4. Treatment - 48 hours storage at standard atmospl	here	
Measurement length direction	[%]	- 0,3
2. Measurement length direction	[%]	- 0,5
3. Measurement length direction	[%]	- 0,5
Mean value length direction	[%]	- 0,5
Measurement cross direction	[%]	- 0,1
2. Measurement cross direction	[%]	- 0,2
3. Measurement cross direction	[%]	- 0,2
Mean value cross direction	[%]	- 0,1
 Vertical distortion out of plane 	[mm]	4



		"Epoca Compact wt"
Fibrebind - Pilling EN ISO 12951, Test D (EN 1963, Test D)		
EN 130 12931, Test D (EN 1903, Test D)		
Number of specimen		4
Duration	[cycles]	200
Median	[grade]	4.5
Basic requirements EN 1307 - Textile floor covering without pile		
Dimensional change - ISO 2551	[%]	- 0,6
Hairiness / Pilling - EN 1963 Methode 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		no mass loss
Relative mass loss		no mass loss
General Structural Integrity EN 985 Methode 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



		"Epoca Compact wt"
Changes in Appearance - Drum Test		
ISO 10361 Method A / 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



		"Epoca Compact wt"
Classification EN 1307 - Textile floor covering without pile		
Abrasion resistance		no mass loss
General strucutal integrity - 10 000 turns		no damage
General strucutal 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
Comfort-Class		LC1
Castor Chair Suitability Of Textile Floor Coverings EN 985 Methode 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]	4-5
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]	4.0
Median	[grade]	4.5
Mean value	[grade]	4.3
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		4.5
Castor chair suitability		suitable for intensive use



		"Epoca Compact wt"
Suitability For Use On Stairs EN ISO 12951, Test B (EN 1963, Test B)		
Number of specimen		4
Median of appearance change in the edge area	[grade]	low
Assessment		suitable for intensive use
Static Electrical Propensity - Walking Test ISO 6356		
Number of specimen		1
Testing climate		
Temperature	[°C]	23
Air humidity	[%]	25
Underlay		rubber on metal
Sole-material		XS-664P Neolite
Pretreatment		none
Body-Voltage supplied condition		
1. Measurement	[kV]	-1.1
2. Measurement	[kV]	-0.8
3. Measurement	[kV]	-0.8
Mean value	[kV]	-0.9
Judgement according to EN 14041		antistatic
Resistance To Fraying EN 1814		
Number of specimen		4
Kind of test sample		sheet material
Description of cut edge after treatment		
Delamination	not occured	
 Fraying 		not occured
 Tuft loss / sprouting 		not occured
Thread puller		not occured
 Release of fibers from the pile material 		low to moderate
Assessment		resistant to fraying



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

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Issuing

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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.

According to the decree on the use of the accreditation mark ("AkkZV") the accredited Conformity Assessment Body is the only one to use the accreditation mark. Application of the registration number of the Notified Body: As to personal protective equipment (PPE) the requirements of Regulation (EU) 2016/425 have to be kept. With construction products the application is only permitted within the declaration of performance for CE-marking.

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End of Report