



Report VN720 144698.2 Test Report

Applicant

EGETAEPPER A/S Industrivej Nord 25 7400-Herning Denmark Reference

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Application

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

Test material

"Una Mineral ECT350"

Material used in testing was anonymized for laboratory purposes. A detailed sample list is contained in the report.

Issuing and Signatures

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1 Order

1.1 Chronology

Date Received Order

chair suitability, suitability for use on stairs, resistance to fraying,

antistatic behaviour and horizontal and vertical resistance.

1.2 Samples

Nr. Received Sample Identification1 28.09.2018 "Una Mineral ECT350"

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

2 Findings / Tests performed

2.1 Summarized test report

According to EN 1307 Annex B

Identification, basic information				
Productname	"Una Mineral ECT350"			
Date	05.11.2018			
Manufacturer / User	EGETAEPPER A/S			
Type of face side	Loop pile (reference according to B.2.2: A4)			
Primary backing	non-woven (reference according to B.2.3: P3)			
Manufacturing procedure	Tufted (reference according to B.2.1: M5)			
Backing	Textile backing (non-woven) (reference according to B.2.4: S10)			
Type of floor covering	Pile carpet			
Colouration	Multicoloured unpatterned (reference according to B.2.5: C3)			
Dimensions	Tiles			
Fibres of pile	100% Polyamide (according to the applicant)			
Total mass	2732 g/m²			
Pile mass above the substrate	333 g/m²			
Total thickness	6,5 mm			
Pile height	2,7 mm			
Surface pile density	0,123 g/cm ³			
Number of tufts or loops	1670 /dm²			
Vettermann-drum test, short time testing	4,5			
Vettermann-drum test, long time testing	4,0			
Basic requirements	fulfilled			

Use class		
Classification of change in appearance	Class 33	
Level of use classification	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	-1,3 kV		
Classification according to EN 14041	antistatic		
Vertical resistance	8,6 x 10 ¹¹		
Horizontal resistance	1,1 x 10 ¹¹		
Dimensional stability (max. deviation)	-0,4 %		

Requirements for tiles				
Total mass of each tile	0,645 kg			
Total weight per unit area	2,732 kg/m ²			
Dimensions of tiles	480 x 480 mm			
Squareness and straightness	< 0,04 %			
Dimensional stability	-0,4 %			
Distortion out of plane (max. deviation)	5,0 mm			
Damages on cut edge	no damage			
Tile suitability	permanent adhered			

DESCRIPTION OF SPECIMEN textile floor cover	ringe	
EN 1307	ıııyə	
LIN 1301		
Number of an asimon		4
Number of specimen		1
Manufacturing procedure		tufted
Primary backing		non-woven
Base structure of face side		loop pile
Coloration of face side		multicolored unpatterned
Type of backing		textile backing (non-woven)
Type of fibres at face side		100% Polyamide
Description according to standard		Pile carpet
MASS PER UNIT AREA of textile floor coverings		
ISO 8543		
100 00 10		
Number of engainen		4
Number of specimen		4
Climatisation		
- Temperature	[°C]	20
- Rel. air humidity	[%]	65
Mass per unit area		
- Mean value	[g/m²]	2732
- Coefficient of variation	[%]	0,9
- Confidence interval (P = 95 %) abs. width	[g/m²]	40
MASS PER UNIT AREA of textile floor coverings	19,1	.0
ISO 8543		
100 0040		
Niverban of an arise on		
Number of specimen		4
Climatisation		
- Temperature	[°C]	20
- Rel. air humidity	[%]	65
Pile mass per unit area		
- Mean value	[g/m²]	333
- Coefficient of variation	[%]	3,1
- Confidence interval (P = 95 %) abs. width	[g/m²]	17
THICKNESS of textile floor coverings	[9/]	''
ISO 1765		
150 1705		
Number of specimen		4
Climatisation		
- Temperature	[°C]	20
- Air humidity	[%]	65
Thickness		
- Mean value	[mm]	6,5
- Coefficient of variation	[%]	0,2
- Confidence interval (P = 95 %) abs. width	[mm]	0,1
THICKNESS WEAR LAYER of textile floor coveri		٠, ١
ISO 1766	iiga	
100 1700		
Ni wala an af an a siman		,
Number of specimen		4
Test atmosphere		
- Temperature	[°C]	20
- Air humidity	[%]	65
Shearing methode		Sharp pointed knife
Thickness of wear layer		· ·
- Mean value	[mm]	2,7
- Coefficient of variation	[%]	0,4
- Confidence interval (P = 95 %) abs. width		· ·
- Comidence interval (F - 95 %) abs. width	[mm]	0,1

PILE DENSITY	
ISO 8543	
Number of specimen	4
Pile material	100% Polyamide
Density of pile material [g/cm³]	1,14
Mass of pile per unit area [g/cm²]	333
Thickness of above the substrate pile [mm]	2,7
Surface pile density [g/cm³]	0,123
Relative surface pile density [%]	10,8
NUMBER OF TUFTS OR LOOPS	
ISO 1763	
Number of specimen	4
Number of tufts or loops / 10 cm	
- in length direction	32,8
- in cross direction	50,9
Number of tufts or loops per dm²	1670
Number of tufts or loops per m²	167000
FIBREBIND	
EN 1963 C	
	,
Number of specimen	4
Duration [turns]	400
Appearance change compared to photostandard	better
BASIC REQUIREMENTS of textile floor coverings	
EN 1307	
Basic requirements - Floor covering with Pile (Loop pile)	1
Colour fastness	Conformity has to be declared by the manufacturer for
Colour lustricss	each colour
Fibre bind < 80 % natural fibres	Gacii coloui
Loop pile - Fuzzing	better than photographs
Judgement	Sollor than priolographs
Basic requirements	fullfilled

CHANGES IN APPERANCE - drum test		
ISO 10361		
Number of specimen		2
Used scale		ISO loop (ISO – A)
Number of revolutions		130 100p (130 - A)
After 5 000 revolutions		
- Index of apperance change (Median)		4,5
- Index of apperatice change (Median)		4,5 4-5
- Main reasons for change		4-5
- Index after colour correction (Mean value)		4,3
After 20 000 revolutions		٦,٥
- Index of apperance change (Median)		4,0
- Index of colour change (Median)		4
- Main reasons for change		
- Index after colour correction (Mean value)		3,8
Damages by the treatment		none
CLASSIFICATION of textile floor coverings		
EN 1307		
Classification of pile floor coverings		1
Index of appearance change		
- Short time test		4,5
- Long time test		4,0
Classification of change in apperance		33
Classification of overall use class		33
Classification of luxury rating class		LC1
MASS PER UNIT AREA of textile floor coverings		
ISO 8543		
Ni wahay of an asimon		
Number of specimen Climatisation		4
	[°C]	20
- Temperature - Rel. air humidity	[°C] [%]	20 65
Total mass of individual tile	[/0]	03
- Mean value	[kg]	0,645
- Coefficient of variation	[%]	1,6
- Confidence interval (P = 95 %) abs. width	[/0] [kg]	0,016
Confidence interval (1 - 30 /0) abs. Width	[1/9]	0,010

SIDE LENGTH, SQUARENESS, STRAIGHTN	ESS	
EN 994		
carpet tiles		
Number of specimen		5
Nominal dimension		
- Length	[mm]	480
- Width	[mm]	480
Determination of dimensions - length		
- Mean length	[mm]	480,2
- Min. average length	[mm]	480,1
- Max. average length	[mm]	480,3
- Difference between the smallest and the large	est	0,2
average length	[mm]	0,2
- Max. deviation from mean length	[%]	< 0,1
- Max. deviation from nominal dimension	[%]	0,1
Determination of dimensions - width		
- Mean length	[mm]	480,2
- Min. average length	[mm]	480,1
- Max. average length	[mm]	480,3
- Difference between the smallest and the large	est	0,2
average length	[mm]	0,2
- Max. deviation from mean length	[%]	< 0,1
- Max. deviation from nominal dimension	[%]	0,1
Squareness and staightness		
- Max. deviation	[mm]	< 0,20
- Max. deviation	[%]	< 0,04

DIMENSIONAL CHANGES AND DISTORTION			
PLANE			
EN 986			
LIV 300			
Number of specimen		3	
1. Treatment		-	
- Measurement 1 - length	[%]	-0,2	
- Measurement 2 - length	[%]	-0,2	
- Measurement 3 - length	[%]	-0,2	
- Mean value - length	[%]	-0,2	
- Measurement 1 - cross	[%]	±0,0	
- Measurement 2 - cross	[%]	±0,0	
- Measurement 3 - cross	[%]	±0,0	
- Mean value - cross	[%]	±0,0	
2. Treatment	[,0]	20,0	
- Measurement 1 - length	[%]	±0,0	
- Measurement 2 - length	[%]	±0,0	
- Measurement 3 - length	[%]	-0.1	
- Mean value - length	[%]	±0,0	
- Measurement 1 - cross	[%]	±0,0	
- Measurement 2 - cross	[%]	±0,0	
- Measurement 3 - cross	[%]	±0,0	
- Mean value - cross	[%]	±0,0	
3. Treatment	[,0]	20,0	
- Measurement 1 - length	[%]	-0,4	
- Measurement 2 - length	[%]	-0,4	
- Measurement 3 - length	[%]	-0,4	
- Mean value - length	[%]	-0,4	
- Measurement 1 - cross	[%]	-0,1	
- Measurement 2 - cross	[%]	-0,1	
- Measurement 3 - cross	[%]	-0,1	
- Mean value - cross	[%]	-0,1	
4. Treatment	L3		
- Measurement 1 - length	[%]	-0,3	
- Measurement 2 - length	[%]	-0,3	
- Measurement 3 - length	[%]	-0,3	
- Mean value - length	[%]	-0,3	
- Measurement 1 - cross	[%]	±0,0	
- Measurement 2 - cross	[%]	±0,0	
- Measurement 3 - cross	[%]	-0,1	
- Mean value - cross	[%]	±0,0	
Maximum disortion out of plane after treatment	,		
- Specimen 1	[mm]	4	
- Specimen 2	[mm]	3	
- Specimen 3	[mm]	5	
Description of the final appearance		medium curling	
i Profession		<u> </u>	

RESISTANCE TO FRAYING		
EN 1814		
Number of specimen		4
Kind of test sample		Sheets material
		Sileets material
Desciption 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		not occured
·		
Judgement		resistant to fraying
CASTOR CHAIR SUITABILITY of textile floor co	verings	
EN 985 A, Assesment EN ISO 9405		
Number of specimen		2
Mounting of specimen		double sided adhesive tape
Usend scale		ISO loop (ISO – A)
Castors		single wheels, type H
Test duration 5000 revolutions		
Change of attribute	[Grade]	
Index of colour change	[Grade]	4,0
Index of appearance change	[Grade]	4
Test duration 25000 revolutions		
Change of attribute	[Grade]	
		2.5
Index of colour change	[Grade]	3,5
Index of appearance change	[Grade]	3-4
Castor chair index		3,1
Damages by the treatment		none
Suitable for castor chairs		suitable for intensive use
SUITABILITY FOR USE ON STAIRS		
EN 1963 B		
EIV 1905 B		
Ni walan of an asimon		4
Number of specimen		. 4
Median of appearance change in the edge area	[Grade]	low appearance change
Judgement		suitable for intensive use
STATIC ELECTRICAL PROPENSITY - Walking	test	
ISO 6356		
Number of specimen		1
Testing climate		
- Temperature	[°C]	23
- Air humidity	[%]	25
Base plate	r 1	Isolating rubbermat on metal plate
Sole-material		XS-664P Neolite
Pretreatment		none
Body-Voltage - supplied condition		, -
- Test 1	[kV]	-1,5
- Test 2	[kV]	-1,4
- Test 3	[kV]	-1,0
- Mean value	[kV]	-1,3
Judgement		antistatic

ELECTRICAL RESISTANCES of textile	floor coverings	
ISO 10965	ilooi coveriilgs	
130 10905		
Number of specimen		3
Testing climate		3
	[°C]	23
- Temperature		25
- Air humidity	[%]	500
Measuring voltage		500
Horizontal resistance	[0]1	0.4 -: 4011
- Specimen 1 - 1st measurement	[Ohm]	3,4 x 10 ¹¹
- Specimen 1 - 2nd measurement	[Ohm]	4,8 x 10 ¹¹
- Specimen 2 - 1st measurement	[Ohm]	6,5 x 10 ¹¹
- Specimen 2 - 2nd measurement	[Ohm]	1,2 x 10 ¹²
- Specimen 3 - 1st measurement	[Ohm]	2,0 x 10 ¹²
- Specimen 3 - 2nd measurement	[Ohm]	1,6 x 10 ¹²
- Geom. Mean value	[Ohm]	8,6 x 10 ¹¹
ELECTRICAL RESISTANCES of textile	floor coverings	
ISO 10965		
Number of specimen		3
Testing climate		
- Temperature	[°C]	23
- Air humidity	[%]	25
Measuring voltage		500
Vertical resistance		
- Specimen 1 - 1st measurement	[Ohm]	9,0 x 10 ¹⁰
- Specimen 1 - 2nd measurement	[Ohm]	1,0 x 10 ¹¹
- Specimen 2 - 1st measurement	[Ohm]	9,0 x 10 ¹⁰
- Specimen 2 - 2nd measurement	[Ohm]	1,1 x 10 ¹¹
- Specimen 3 - 1st measurement	[Ohm]	1,6 x 10 ¹¹
- Specimen 3 - 2nd measurement	[Ohm]	1,3 x 10 ¹¹
- Geom. Mean value	[Ohm]	1,1 x 10 ¹¹

3 Remarks

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