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Test Report VN720 225078.9

Application
Testing and classification according to EN 1307.

Test Material
Highline Wool 1400 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 - Institut fuer Oekologie, Technik und Innovation GmbH

Günther Sereinig
Customer Service Officer

1 Application

Date of Order	Scope of Order
19.07.2023	Summarized test report - EN 1307 Annex B Specific requirements of tiles - EN 1307 Annex A Description Of Specimen - Textile Floor Coverings - EN 1307 Mass Per Unit Area - ISO 8543 Textile Floor Coverings Total Mass Of The Single Tile - ISO 8543 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 Basic requirements - EN 1307 -Textile floor covering with ≥ 80 % natural fibre in pile Side Length, Squareness, Straightness - EN 994 - Textile Floorcoverings Changes in Appearance - Drum Test - ISO 10361 Method A / EN ISO 9405 Classification - EN 1307 -Textile floor covering with ≥ 80 % natural fibre in pile Resistance To Fraying - EN ISO 10833 Dimension Stability And Curling After Exposure To Heat And Water - ISO 2551 / EN 986

2 Samples

No.	Receipt	Sample Identification
1	19.07.2023	Highline Wool 1400 ect350

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

3 Tests Performed / Results

		#1 Highline Wool 1400 ect350
Summarized test report EN 1307 Annex B *		
Number of Tests		1
• Identification, basic information		
Product name		Highline Wool 1400 ect350
Type of face side		Cut Pile (according to B.2.2: A1)
Manufacturing procedure		Tufted (according to B.2.1: M5)
Backing		Textile Backing (according to B.2.4: S10) (non - woven fabric)
Type of floor covering		textile floor covering with pile
Base		non - woven fabric (according to B.2.3: P3)
Colouration		multicolored patterned (according to B.2.5: C2)
Dimensions		tiles
Fibers of pile		textile floor covering with pile
• Construction		
Total mass	[g/m²]	3'233
Pile mass above the substrate	[g/m²]	1'026
Total thickness	[mm]	11.3
Thickness of pile layer	[mm]	7.1
Surface pile density	[g/cm³]	0.145
Number of tufts or loops per dm²		1'350
• Appearance change		
Vettermann-drum test, short time testing		3.5
Vettermann-drum test, long time testing		3.0
• Classification according EN 1307		
Basic requirements		fulfilled
Use class		Class 33
Luxury-Class		LC5
• Additional properties		
Fraying resistance		resistant to fraying
Specific requirements of tiles EN 1307 Annex A *		
• Total mass of individual tile	[kg]	0.725
• Total weight per unit area	[kg/m²]	3.233
• Dimensions of tiles	[mm]	480x480
• Max. deviation from mean length	[%]	< 0,1
• Squareness and straightness	[%]	< 0,04
• Dimensional stability (max. change)	[%]	- 0,3 / + 0
• Distortion out of plane	[mm]	2.0
• Tile suitability		
• Damage at cut edge		no damage
• Basic requirements fulfilled for		permanent adhered

		#1 Highline Wool 1400 ect350
Description Of Specimen - Textile Floor Coverings EN 1307 *		
Number of Tests		1
• Manufacturing procedure		tufted
• Structure of face side		cut pile
• Primary backing		non - woven fabric
• Colouration of the surface		multicoloured patterned
• Type of backing		textile backing (non - woven)
• Type of fibres at face side		100% wool (declaration by the applicant)
• Dimensions		tiles
• Description according to standard		textile floor covering with pile
Mass Per Unit Area ISO 8543 Textile Floor Coverings		
Number of Tests		1
• Number of specimen		4
• Conditioning		
Temperature	[°C]	20
Air humidity	[%]	65
• Total mass		
Mean value	[g/m²]	3'233
Coefficient of variation	[%]	1.3
Confidence interval (95%) abs. width	[g/m²]	70
• Measurement uncertainty	[%]	0.84
• Issue Date of Standard: 2020-06		
Total Mass Of The Single Tile ISO 8543		
Number of Tests		1
• Number of specimen		4
• Conditioning		
Temperature	[°C]	20
Air humidity	[%]	65
• Total mass of tiles		
Mean value	[kg]	0.725
Coefficient of variation	[%]	1.4
Confidence interval (95%) abs. width	[kg]	0.016
• Measurement uncertainty	[%]	0.84
• Issue Date of Standard: 2020-06		

		#1 Highline Wool 1400 ect350
Thickness Of Textile Floor Coverings ISO 1765		
Number of Tests		2
• Number of specimen		4
• Conditioning		
Temperature	[°C]	20
Air humidity	[%]	65
• Thickness		
Mean value	[mm]	11.3
Coefficient of variation	[%]	0.4
Confidence interval (95%) abs. width	[mm]	0.1
• Measurement uncertainty	[%]	1.47
• Issue Date of Standard: 1986-11		
Thickness Wear Layer Of Textile Floor Coverings ISO 1766		
Number of Tests		1
• Number of specimen		4
• Conditioning		
Temperature	[°C]	20
Air humidity	[%]	65
• Shearing methode		--
• Thickness of wear layer		
Mean value	[mm]	7.1
Coefficient of variation	[%]	1.7
Confidence interval (95%) abs. width	[mm]	0.2
• Measurement uncertainty	[%]	1.87
• Issue Date of Standard: 1999-10		
Pile Density ISO 8543		
Number of Tests		1
• Number of specimen		4
• Pile material		100% WO
• Density of pile material	[g/cm³]	1.32
• Mass of pile per unit area	[g/m²]	1'026
• Thickness of pile layer	[mm]	7.1
• Surface pile density	[g/cm³]	0.145
• Relative surface pile density	[%]	10.9
• Issue Date of Standard: 2020-06		

		#1 Highline Wool 1400 ect350
Number Of Tufts Or Loops ISO 1763		
Number of Tests		1
• Number of specimen		4
• Number of tufts or loops / 10 cm		
Longitudinal direction		42.6
Cross direction		31.7
• Number of tufts or loops per dm²		1'350
• Number of tufts or loops per m²		135'000
• Issue Date of Standard: 2020-07		
Basic requirements EN 1307 -Textile floor covering with ≥ 80 % natural fibre in pile *		
Number of Tests		1
• Color fastness	[grade]	Conformity shall be indicated for each color by the manufacturer
• Fibre bind - cut pile - EN 1963 Method A		Wool content > 80% therefore no basic requirements required
• Basic requirements		fulfilled
Side Length, Squareness, Straightness EN 994 - Textile Floorcoverings *		
Number of Tests		1
• Number of specimen		5
• Nominal dimension		
Length	[mm]	480
Width	[mm]	480
• Determination of dimensions length		
Mean length	[mm]	480.4
Min. average length	[mm]	480.3
Max. average length	[mm]	480.5
Diff. between the smallest and the largest average length	[mm]	0.2
Max. deviation from mean length	[%]	< 0,1
Max. deviation from nominal dimension	[%]	0.1
• Determination of dimensions width		
Mean length	[mm]	480.4
Min. average length	[mm]	480.2
Max. average length	[mm]	480.5
Diff. between the smallest and the largest average length	[mm]	0.3
Max. deviation from mean length	[%]	< 0,1
Max. deviation from nominal dimension	[%]	0.1
• Squareness and straightness		
Max. deviation	[mm]	< 0,20
Max. percentage deviation	[%]	< 0,04

		#1 Highline Wool 1400 ect350
Changes in Appearance - Drum Test ISO 10361 Method A / EN ISO 9405		
Number of Tests		1
• Used scale		ISO cut (ISO - B)
• Appearance change 5'000 cycles (if dominant: attribute)		
Assessor 1	[grade]	3.5
Assessor 2	[grade]	3.0
Assessor 3	[grade]	3.5
Median	[grade]	3.5
Mean value	[grade]	3.3
• Index of colour change 5'000 cycles		
Assessor 1	[grade]	4
Assessor 2	[grade]	3 - 4
Assessor 3	[grade]	3 - 4
Median	[grade]	3 - 4
• Appearance change 20'000 cycles (if dominant: attribute)		
Assessor 1	[grade]	3.0
Assessor 2	[grade]	2.5
Assessor 3	[grade]	3.0
Median	[grade]	3.0
Mean value	[grade]	2.8
• Index of colour change 20'000 cycles		
Assessor 1	[grade]	2 - 3
Assessor 2	[grade]	2 - 3
Assessor 3	[grade]	2 - 3
Median	[grade]	2 - 3
• Damages by treatment		None
• Measurement uncertainty: ± 0.5	[']	± 0,5
• Issue Date of Standard EN ISO 9405: 2017-06		
• Issue Date of Standard ISO 10361: 2015-02		
Classification EN 1307 -Textile floor covering with ≥ 80 % natural fibre in pile *		
Number of Tests		2
• Appearance change - short time test	[grade]	3.5
• Appearance change - long time test	[grade]	3.0
• Add.mand.requ.-Class 32: Pile desity ≥ 0,10 g/cm³		0.145
• Level of use classification		Class 33
• Luxury-Class		LC5

	#1 Highline Wool 1400 ect350
Resistance To Fraying EN ISO 10833	
Number of Tests	1
• Number of specimen	4
• Kind of test sample	tiles
• Unnacceptable changes	
Specimen 1	None
Specimen 2	None
Specimen 3	None
Specimen 4	None
• Note	-
• Assessment	resistant to fraying
• Issue Date of Standard: 2019-06	

		#1 Highline Wool 1400 ect350
Dimension Stability And Curling After Exposure To Heat And Water ISO 2551 / EN 986		
Number of Tests		2
• Number of specimen		3
• Deviation from standard		No
• 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	[%]	- 0,1
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
• 3. Treatment - 24 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	[%]	- 0,1
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	[%]	- 0,2
2. Measurement length direction	[%]	- 0,3
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	[%]	- 0,1
Mean value cross direction	[%]	- 0,2
• Vertical distortion out of plane	[mm]	2
• Description of the final appearance		Light bowling
• Measurement uncertainty	[%]	32.40
• Issue Date of Standard ISO 2551: 2020-05		
• Issue Date of Standard EN 986: 2005-12		

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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