

TFI Report 21-001493-01

Classification of Textile Floor Coverings

Customer
EGE Carpets A/S
Industrivej Nord 25
7400 Herning
DENMARK

Product
Textile floor covering
Colortec 80/20 1500 LF

This report includes 3 pages and 6 annex(es).

Responsible at TFI

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Aachen, 24.02.2022



Dr. Andreas Zoëga
- Head of testing laboratory -

The present document is provided with an advanced electronic signature.

This report only applies to the tested samples and has been established to the best of our knowledge. Only the entire report shall be reproduced. Under no circumstances, extracts shall be used. Furthermore, we apply the "General Terms and Conditions for the Execution of Contracts" of the TFI Aachen GmbH, also with regard to the order execution.

1 Transaction

Test order	Classification of textile floor coverings according to EN 1307:2014+A3:2019
Order date	02.12.2021, 06.01.2022
Your reference	Lenette Ormstrup
Product designation	Colortec 80/20 1500 LF
TFI sample number	2102344
Date of sample receipt	06.12.2021
Sampling performed by	Customer

2 Product Specification


see annex KM

3 Results

3.1 Characteristics

Characteristics	Test result	Requirements / Remarks	Annex
Fibre composition of the use surface	80 % wool/20 % polyamide	not relevant	KM
Total thickness [mm]	12.9	fulfilled	KM
Thickness of pile above the substrate mm]	7.7	fulfilled	KM
Number of tufts or loops [dm ²]	1287 *	fulfilled	KM
Total mass per unit area [g/m ²]	2421	fulfilled	KM
Mass of pile per unit area [g/m ²]	979	fulfilled	KM
Surface pile density [g/cm ³]	0.13	fulfilled	KM

3.3 Classification for Use

Classification	Symbol	Levels of use	Annex
33		Commercial Heavy	SK

3.3. Luxury Rating

Classification	Annex
LC 4	SK

The measurement results are evaluated without consideration of the measurement uncertainty with reference to compliance with limit values, unless otherwise specified by the test standard.

4 Annexes

Changes in Appearance ^a	AV 21-001493-01
Characteristics ^a	KM 21-001493-01
Light fastness ^a	LE 21-001493-01
Rubbing Fastness ^a	RE 21-001493-01
Use Classification and Luxury Rating	SK 21-001493-01
Water Fastness ^a	WE 21-001493-01

The annexes marked ^a are based on tests accredited in accordance with EN ISO/IEC 17025.

Annex AV - Changes In Appearance

1 Transaction

Product designation	Colortec 80/20 1500 LF
TFI sample number	2102344
Testing period	16.12.2021

2 Test Method / Requirements

ISO 10361:2015	Production of changes in appearance by means of Vettermann drum and hexapod tumbler tester
Assessment standard	EN ISO 9405:2017
Test method	method A (Vettermann drum)
Type of underlay	none
Number of assessors	3
Type of vacuum cleaner	Vorwerk Kobold VT270 / EB370 with rotating brush

3 Results

Parameter	Short-term wear (5,000 cycles)		Long-term wear (20,000 cycles)	
	Mean value	Median value	Mean value	Median value
Assessment	3.7	3.5	2.8	3
Grey Scale	3.3	3-4	2.5	2-3
Dominant property	structure, colour		structure, colour	

Comments / special observations: none

Anlage KM – Characteristics

1 Transaction

Product designation	Colortec 80/20 1500 LF
TFI sample number	2102344
Testing period	11.01.2022 - 17.01.2022

2 Test Method / Requirements

REGULATION (EU) No 1007/2011	Fibre composition of textile products
ISO 1765:1986	Determination of thickness
ISO 1766:1999	Determination of thickness of pile
ISO 1763:2020	Determination of number of tufts
ISO 8543:2020	Methods for determination of mass
Deviations	<ul style="list-style-type: none"> Individual results are not shown, only the mean values are given Determination of mass of pile per unit area on sample size 200x200 cm
Number of samples	4
History of the sample	not known
Tested with guard ring	yes
Test climate	(20 ± 2) °C, (65 ± 4) % rel. humidity
Type of shearing machine	Bandknife splitting machine

3 Results

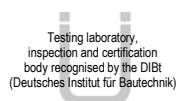
Parameter	Result
Type of manufacture	tufted
Type of surface	cut pile
Pattern	multicoloured, patterned
Colour	light beige, black
Backing	laminated felt backing *
Fibre composition of the use surface	80 % wool/20 % polyamide *
Total thickness [mm]	12.9 (CV = 0.3 %)



Total mass per unit area [g/m ²]	2421	(CV = 0.9 %)
Thickness of pile above the substrate [mm]	7.7	(CV = 0.3 %)
Mass of pile per unit area [g/m ²]	979	(CV = 0.7 %)
Number of tufts production direction [/10 cm] Number of tufts cross production direction [/10 cm] Number of tufts per unit area [/mm ²]	not tested	
Surface pile density [g/cm ³]	0.13	(CV = 0.0 %)

* Customer information
Comments: none

CV=Coefficient of variation



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Annex LE - Light Fastness

1 Transaction

Product designation	Colortec 80/20 1500 LF
TFI sample number	2102344
Testing period	10.01.2022 - 07.02.2022

2 Test Method / Requirements

ISO 105-B02:2014	Colour fastness to artificial light: Xenon arc fading lamp
Test device	Q-Sun Xe-2
Test method	2
Illumination conditions	A - Normal conditions (moderate zone)
Turning of the specimen holder	no
Deviations	None

3 Results

Rating scale	Colour fastness (grade)	Type of colour change
Grade 1: BS 2 ~ GS 3 (preliminary assessment)	4	none
Grade 2: BS 4 ~ GS 4	4	lighter
Grade 3: BS 6 ~ GS 4	6	lighter
Grade 4: BS 7 ~ GS 4	6	lighter
Overall grade (arithmetic mean of Grade 2, 3 and 4)	5-6	lighter

BS: Blue scale, GS: Grey scale

Comments: none

Annex RE – Rubbing Fastness

1 Transaction

Product designation	Colortec 80/20 1500 LF
TFI sample number	2102344
Testing period	12.01.2022

2 Test Method / Requirements

ISO 105-X12:2016	Colour fastness to rubbing
Deviation	<ul style="list-style-type: none"> Size of the rubbing cloth 50 mm x 50 mm
Conditioning of specimens and rubbing cloth	At least 24 h at (20 ± 2) °C and (65 ± 4) % rel. humidity
Test climate	(20 ± 2) °C, (65 ± 2) % rel. humidity
Rod and Force	Rectangular rod with force according standard

3 Results

Fastness grade for staining			
Production direction		Cross production direction	
dry	wet (water absorption in %)	dry	wet (water absorption in %)
4-5	4-5 (100)	4-5	4-5 (100)

Comments: none

Annex SK – Use Classification and Luxury Rating

1 Transaction

Product designation	Colortec 80/20 1500 LF
TFI sample number	2102344
Testing period	16.12.2021 - 07.02.2022

2 Test Method / Requirements

EN 1307:2014+A3:2019	Textile floor coverings - Classification
Deviations	None

3 Results

3.1 Basic Requirements

Parameter	Result	Annex
Colour fastness to light	grade 5-6	LE
Colour fastness to rubbing - wet - dry	grade 4-5 grade 4-5	RE
Colour fastness to water - change in colour - staining	grade 4-5 grade 3	WE
Basic requirements	fulfilled	

Comments: none

3.3 Use Classification

Parameter	Result	
Changes in appearance		
Short term testing (median value)	3.5	AV
Long term testing (median value)	3	AV



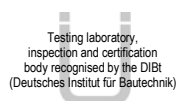
Classification for change in appearance	class 33
Level of Use	class 33

Comments: none

3.3. Luxury Rating

Luxury class	Annex
LC 4	KM

Comments: none



Annex WE – Water Fastness

1 Transaction

Product designation	Colortec 80/20 1500 LF
TFI sample number	2102344
Testing period	14.01.2022 - 25.01.2022

2 Test Method / Requirements

ISO 105-E01:2013	Colour fastness to water
Deviations	<ul style="list-style-type: none"> Textile floor covering and adjacent fabric are not sewn together
Multi-fibre adjacent fabric	According to ISO 105-F10:2009

3 Results

Parameter	Fastness (grey scale grade)
Change in colour of the specimen	4-5
Staining on acetate	4
Staining on cotton	3
Staining on polyamide 6.6	3-4
Staining on polyester	4-5
Staining on polyacrylnitrile	4-5
Staining on wool	4-5

Comments: none