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Vienna / 23.01.2024 / guse

Test Report VN720 233943.1

Application

Testing and classification according to EN 1307 as well as antistatic behaviour and resistance to fraying.

Test Material

Grace CF-black

The test material used for testing was made anonymous for laboratory purposes.
A detailed sample list is included in the document.

Issuing

Original Issuing, 23.01.2024

Number Of Included Pages: 9

OETI - Institut fuer Oekologie, Technik und Innovation GmbH

A handwritten signature in blue ink, appearing to read "Günther Sereinig".

Günther Sereinig

Customer Service Officer





1 Application

| Date of Order | Scope of Order |
|---------------|---|
| 15.12.2023 | Summarized test report - EN 1307 Annex B Description Of Specimen - Textile Floor Coverings - EN 1307 Mass Per Unit Area - ISO 8543 Textile Floor Coverings Mass Of Pile Above Substrate - 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 Mass Loss - Lisson Pedal Wheel Methode - EN ISO 12951, Test A Basic requirements - EN 1307 - Textile floor covering with cut pile Changes in Appearance - Drum Test - ISO 10361 Method A / EN ISO 9405 Classification - EN 1307 - Textile floor covering with pile Static Electrical Propensity - Walking Test - ISO 6356 Resistance To Fraying - EN ISO 10833 |

2 Samples

| No. | Receipt | Sample Identification |
|-----|------------|-----------------------|
| 1 | 21.12.2023 | Grace CF Black |

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

3 Tests Performed / Results

#1
Grace CF Black

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| Summarized test report EN 1307 Annex B * | | |
| Number of Tests | | 1 |
| • Identification, basic information | | |
| Product name | | Grace CF Black |
| 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 | | plain (according to B.2.5: C1) |
| Dimensions | | rolls |
| Fibers of pile | | 100 % PA (according to the applicant) |
| • Construction | | |
| Total mass | [g/m ²] | 3'085 |
| Pile mass above the substrate | [g/m ²] | 1'511 |
| Total thickness | [mm] | 11.9 |
| Thickness of pile layer | [mm] | 9.1 |
| Surface pile density | [g/cm ³] | 0.166 |
| Number of tufts or loops per dm ² | | 2'795 |
| • Appearance change | | |
| Vettermann-drum test, short time testing | | 2.5 |
| Vettermann-drum test, long time testing | | 1.5 |
| • Classification according EN 1307 | | |
| Basic requirements | | fulfilled |
| Hairiness (Pilling) | | 1.9 % |
| Use class | | Class 21 |
| Luxury-Class | | LC5 |
| • Additional properties | | |
| Fraying resistance | | resistant to fraying |
| Body-Voltage, walking test | [kV] | - 1,8 |
| Assessment according to EN 14041:2007 | | antistatic |

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Grace CF Black

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| <p>Description Of Specimen - Textile Floor Coverings EN 1307 *</p> <ul style="list-style-type: none"> Number of Tests • Manufacturing procedure • Structure of face side • Primary backing • Colouration of the surface • Type of backing • Type of fibres at face side • Dimensions • Description according to standard | <p style="text-align: center;">2 tufted cut pile Non- woven fabric plain textile backing (non woven fabric) 100 % PA (according to the applicant) rolls textile floor covering with pile</p> |
| <p>Mass Per Unit Area ISO 8543 Textile Floor Coverings</p> <ul style="list-style-type: none"> Number of Tests • Number of specimen • Conditioning <ul style="list-style-type: none"> Temperature [°C] Air humidity [%] • Total mass <ul style="list-style-type: none"> Mean value [g/m²] Coefficient of variation [%] Confidence interval (95%) abs. width [g/m²] • Measurement uncertainty [%] • Issue Date of Standard: 2020-06 | <p style="text-align: center;">1 4 20 65 3'085 0.9 46 0.84</p> |
| <p>Mass Of Pile Above Substrate ISO 8543</p> <ul style="list-style-type: none"> Number of Tests • Number of specimen • Conditioning <ul style="list-style-type: none"> Temperature [°C] Air humidity [%] • Mass of pile above substrate <ul style="list-style-type: none"> Mean value [g/m²] Coefficient of variation [%] Confidence interval (95%) abs. width [g/m²] • Measurement uncertainty [%] • Issue Date of Standard: 2020-06 | <p style="text-align: center;">1 4 20 65 1'511 1.0 25 0.85</p> |

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| <p>Thickness Of Textile Floor Coverings ISO 1765</p> <p>Number of Tests 1</p> <ul style="list-style-type: none"> • Number of specimen 4 • Conditioning <ul style="list-style-type: none"> Temperature [°C] 20 Air humidity [%] 65 • Thickness <ul style="list-style-type: none"> Mean value [mm] 11.9 Coefficient of variation [%] 0.5 Confidence interval (95%) abs. width [mm] 0.1 • Measurement uncertainty [%] 1.47 • Issue Date of Standard: 1986-11 | |
| <p>Thickness Wear Layer Of Textile Floor Coverings ISO 1766</p> <p>Number of Tests 1</p> <ul style="list-style-type: none"> • Number of specimen 4 • Conditioning <ul style="list-style-type: none"> Temperature [°C] 20 Air humidity [%] 65 • Shearing methode -- • Thickness of wear layer <ul style="list-style-type: none"> Mean value [mm] 9.1 Coefficient of variation [%] 1.6 Confidence interval (95%) abs. width [mm] 0.3 • Measurement uncertainty [%] 1.87 • Issue Date of Standard: 1999-10 | |
| <p>Pile Density ISO 8543</p> <p>Number of Tests 1</p> <ul style="list-style-type: none"> • Number of specimen 4 • Pile material 100% PA • Density of pile material [g/cm³] 1.14 • Mass of pile per unit area [g/m²] 1'511 • Thickness of pile layer [mm] 9.1 • Surface pile density [g/cm³] 0.166 • Relative surface pile density [%] 14.6 • Issue Date of Standard: 2020-06 | |

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Grace CF Black

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| <p>Number Of Tufts Or Loops ISO 1763</p> <p>Number of Tests</p> <ul style="list-style-type: none"> • Number of specimen • Number of tufts or loops / 10 cm <ul style="list-style-type: none"> Longitudinal direction Cross direction • Number of tufts or loops per dm² • Number of tufts or loops per m² • Issue Date of Standard: 2020-07 | <p style="text-align: right;">1</p> <p style="text-align: right;">4</p> <p style="text-align: right;">70.4</p> <p style="text-align: right;">39.7</p> <p style="text-align: right;">2'795</p> <p style="text-align: right;">279'500</p> |
| <p>Mass Loss - Lisson Pedal Wheel Methode EN ISO 12951, Test A</p> <p>Number of Tests</p> <ul style="list-style-type: none"> • Number of specimen • Mass loss per unit area <ul style="list-style-type: none"> Mean value [g/m²] Coefficient of variation [%] Confidence interval (95%) abs. width [g/m²] • Relative mass loss <ul style="list-style-type: none"> Mean value [%] Coefficient of variation [%] Confidence interval (95%) abs. width [%] • Tretradindex • Measurement uncertainty [%] • Issue Date of Standard: 2020-06 | <p style="text-align: right;">1</p> <p style="text-align: right;">4</p> <p style="text-align: right;">29</p> <p style="text-align: right;">4.4</p> <p style="text-align: right;">2</p> <p style="text-align: right;">1.9</p> <p style="text-align: right;">4.4</p> <p style="text-align: right;">0.1</p> <p style="text-align: right;">7.2</p> <p style="text-align: right;">5.60</p> |
| <p>Basic requirements EN 1307 - Textile floor covering with cut pile *</p> <p>Number of Tests</p> <ul style="list-style-type: none"> • Colour fastness [grade] • Fibre bind - Cut pile - EN 1963 Methode A [%] • Basic requirements | <p style="text-align: right;">1</p> <p style="text-align: right;">Conformity shall be indicated for each color by the manufacturer</p> <p style="text-align: right;">1.9</p> <p style="text-align: right;">fulfilled</p> |

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Grace CF Black

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| <p>Changes in Appearance - Drum Test ISO 10361 Method A / EN ISO 9405</p> <p>Number of Tests • Used scale</p> <p>• Appearance change 5'000 cycles (if dominant: attribute)</p> <p>Assessor 1 [grade] 3.0 Assessor 2 [grade] 2.5 Assessor 3 [grade] 2.5 Median [grade] 2.5 Mean value [grade] 2.7</p> <p>• Index of colour change 5'000 cycles</p> <p>Assessor 1 [grade] 3 - 4 Assessor 2 [grade] 3 Assessor 3 [grade] 3 Median [grade] 3</p> <p>• Appearance change 20'000 cycles (if dominant: attribute)</p> <p>Assessor 1 [grade] 1.5 Assessor 2 [grade] 1.5 Assessor 3 [grade] 1.5 Median [grade] 1.5 Mean value [grade] 1.5</p> <p>• Index of colour change 20'000 cycles</p> <p>Assessor 1 [grade] 1 - 2 Assessor 2 [grade] 1 - 2 Assessor 3 [grade] 1 - 2 Median [grade] 1 - 2</p> <p>• Damages by treatment No</p> <p>• Measurement uncertainty: ± 0.5 [°] $\pm 0,5$</p> <p>• Issue Date of Standard EN ISO 9405: 2017-06 • Issue Date of Standard ISO 10361: 2015-02</p> | <p>1 ISO cut (ISO - B)</p> |
| <p>Classification EN 1307 - Textile floor covering with pile *</p> <p>Number of Tests • Appearance change - short time test [grade] 2.5 • Appearance change - long time test [grade] 1.5 • Level of use classification Class 21 • Luxury-Class LC5</p> | <p>1 2.5 1.5 Class 21 LC5</p> |

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Grace CF Black

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| <p>Resistance To Fraying EN ISO 10833</p> <p>Number of Tests • Number of specimen • Kind of test sample • Unacceptable changes</p> <p style="padding-left: 20px;">Specimen 1 Specimen 2 Specimen 3 Specimen 4</p> <p>• Note • Assessment • Issue Date of Standard: 2019-06</p> | <p style="text-align: center;">1 4 sheet material Not occurred Not occurred Not occurred Not occurred -- resistant to fraying</p> |
| <p>Static Electrical Propensity - Walking Test ISO 6356</p> <p>Number of Tests • Number of specimen • Testing climate</p> <p style="padding-left: 20px;">Temperature [°C] Air humidity [%]</p> <p>• Underlay • Sole-material • Pretreatment • Body-Voltage supplied condition</p> <p style="padding-left: 20px;">1. Measurement [kV] 2. Measurement [kV] 3. Measurement [kV] Mean value [kV]</p> <p>• Assessment according to EN 14041:2007 • Issue Date of Standard: 2012-07 • Measurement uncertainty [%]</p> | <p style="text-align: center;">1 1 23 25 isolated rubber mat on metal plate XS-664P Neolite tested in supplied condition - 1,5 - 1,9 - 2,0 - 1,8 antistatic 30.00</p> |

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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This test report is only issued as a PDF. Translations will be marked accordingly on the cover sheet.

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Statements of conformity are based on the specifications of the specified standard. The “simple acceptance rule” applies, that means the measurement uncertainty is stated for the statement of conformity, but not taken into account.

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End of Report