

Test Report

Report No.: A 868622-1



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Chf/leln
Order no.: 868622
No. of appendices: 1

Subject: Upholstery fabric and yarn sample Sunniva 192 (as per info from the assigner).

Sampling: The test material was sampled by the client and received at the Danish Technological Institute 25.04.2019

Method: See Appendix 1.

Period: The testing was completed 14.05.2019

Result: Individual results appear from Appendix 1.

Storage: The test material will be destroyed after 6 months, unless otherwise agreed.

Terms: The accredited test was carried out according to DANAK's general conditions see www.danak.dk and according to the General Terms and Conditions regarding Commissioned Work Accepted by the Danish Technological Institute, which apply at the time of signing the agreement. The test is only valid for the tested specimen. The test report may only be extracted, if the laboratory has approved the extract.

Date/place: 16.05.2019, Danish Technological Institute, Wood and Biomaterials, Textile, Taastrup

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Co-signatory



Report no.: A 868622-1
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Test Methods	Results
Colour fastness to artificial light DS/EN ISO 105:B02:2014 Method 2 1-8 scale, 8 best rating Normal conditions Apparatus: Atlas Ci4000 Xenon Weather-Ometer	192 fabric, yarn sats 33 Colour fastness: 5-6
Colour fastness to artificial light DS/EN ISO 105:B02:2014 Method 2 1-8 scale, 8 best rating Normal conditions Apparatus: Atlas Ci4000 Xenon Weather-Ometer	192 yarn 9097-99/sats 33 black X Colour fastness: 5

Test Report

Report No.: A 876354-1



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Page 1 of 1
Chf/leln
Order no.: 876354
No. of appendices: 1

Subject: Upholstery fabric Sunniva 3, 58% new wool, 25% viscose, 8% linen, 5% nylon, 4% polyester (as per info from the assigner).

Sampling: The test material was sampled by the client and received at the Danish Technological Institute 11.06.2019

Method: See Appendix 1.

Period: The testing was completed 12.07.2019

Result: Individual results appear from Appendix 1.

Storage: The test material will be destroyed after 6 months, unless otherwise agreed.

Terms: The accredited test was carried out according to DANAK's general conditions see www.danak.dk and according to the General Terms and Conditions regarding Commissioned Work Accepted by the Danish Technological Institute, which apply at the time of signing the agreement. The test is only valid for the tested specimen. The test report may only be extracted, if the laboratory has approved the extract.

Date/place: 15.07.2019, Danish Technological Institute, Wood and Biomaterials, Textile, Taastrup

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Report no.: A 876354-1
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Test Methods	Results
Colour fastness to artificial light DS/EN ISO 105:B02:2014 Method 2 1-8 scale, 8 best rating Normal conditions Apparatus: Atlas Ci4000 Xenon Weather-Ometer	723 Colour fastness: 6-7
Colour fastness to artificial light DS/EN ISO 105:B02:2014 Method 2 1-8 scale, 8 best rating Normal conditions Apparatus: Atlas Ci4000 Xenon Weather-Ometer	863 Colour fastness: 4 <i>IMPROVED →</i>
Colour fastness to artificial light DS/EN ISO 105:B02:2014 Method 2 1-8 scale, 8 best rating Normal conditions Apparatus: Atlas Ci4000 Xenon Weather-Ometer	953 Colour fastness: 4 <i>IMPROVED →</i>
Colour fastness to artificial light DS/EN ISO 105:B02:2014 Method 2 1-8 scale, 8 best rating Normal conditions Apparatus: Atlas Ci4000 Xenon Weather-Ometer	773 Colour fastness: 5
Colour fastness to artificial light DS/EN ISO 105:B02:2014 Method 2 1-8 scale, 8 best rating Normal conditions Apparatus: Atlas Ci4000 Xenon Weather-Ometer	713 Colour fastness: 5
Colour fastness to artificial light DS/EN ISO 105:B02:2014 Method 2 1-8 scale, 8 best rating Normal conditions Apparatus: Atlas Ci4000 Xenon Weather-Ometer	763 Colour fastness: 6-7
Colour fastness to artificial light DS/EN ISO 105:B02:2014 Method 2 1-8 scale, 8 best rating Normal conditions Apparatus: Atlas Ci4000 Xenon Weather-Ometer	783 Colour fastness: 6-7
Colour fastness to artificial light DS/EN ISO 105:B02:2014 Method 2 1-8 scale, 8 best rating Normal conditions Apparatus: Atlas Ci4000 Xenon Weather-Ometer	793 Colour fastness: 5-6

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Test Methods	Results
Colour fastness to artificial light DS/EN ISO 105:B02:2014 Method 2 1-8 scale, 8 best rating Normal conditions Apparatus: Atlas Ci4000 Xenon Weather-Ometer	383 Colour fastness: 6-7
Colour fastness to artificial light DS/EN ISO 105:B02:2014 Method 2 1-8 scale, 8 best rating Normal conditions Apparatus: Atlas Ci4000 Xenon Weather-Ometer	423 Colour fastness: 6-7
Colour fastness to artificial light DS/EN ISO 105:B02:2014 Method 2 1-8 scale, 8 best rating Normal conditions Apparatus: Atlas Ci4000 Xenon Weather-Ometer	683 Colour fastness: 5-6
Colour fastness to artificial light DS/EN ISO 105:B02:2014 Method 2 1-8 scale, 8 best rating Normal conditions Apparatus: Atlas Ci4000 Xenon Weather-Ometer	717 Colour fastness: 6
Colour fastness to artificial light DS/EN ISO 105:B02:2014 Method 2 1-8 scale, 8 best rating Normal conditions Apparatus: Atlas Ci4000 Xenon Weather-Ometer	253 Colour fastness: 6-7
Colour fastness to artificial light DS/EN ISO 105:B02:2014 Method 2 1-8 scale, 8 best rating Normal conditions Apparatus: Atlas Ci4000 Xenon Weather-Ometer	363 Colour fastness: 5
Colour fastness to artificial light DS/EN ISO 105:B02:2014 Method 2 1-8 scale, 8 best rating Normal conditions Apparatus: Atlas Ci4000 Xenon Weather-Ometer	353 Colour fastness: 6-7
Colour fastness to artificial light DS/EN ISO 105:B02:2014 Method 2 1-8 scale, 8 best rating Normal conditions Apparatus: Atlas Ci4000 Xenon Weather-Ometer	373 Colour fastness: 6

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Test Methods	Results
Colour fastness to artificial light DS/EN ISO 105:B02:2014 Method 2 1-8 scale, 8 best rating Normal conditions Apparatus: Atlas Ci4000 Xenon Weather-Ometer	213 Colour fastness: 5
Colour fastness to artificial light DS/EN ISO 105:B02:2014 Method 2 1-8 scale, 8 best rating Normal conditions Apparatus: Atlas Ci4000 Xenon Weather-Ometer	223 Colour fastness: 5-6
Colour fastness to artificial light DS/EN ISO 105:B02:2014 Method 2 1-8 scale, 8 best rating Normal conditions Apparatus: Atlas Ci4000 Xenon Weather-Ometer	242 Colour fastness: 5-6
Colour fastness to artificial light DS/EN ISO 105:B02:2014 Method 2 1-8 scale, 8 best rating Normal conditions Apparatus: Atlas Ci4000 Xenon Weather-Ometer	233 Colour fastness: 5
Colour fastness to artificial light DS/EN ISO 105:B02:2014 Method 2 1-8 scale, 8 best rating Normal conditions Apparatus: Atlas Ci4000 Xenon Weather-Ometer	163 Colour fastness: 6
Colour fastness to artificial light DS/EN ISO 105:B02:2014 Method 2 1-8 scale, 8 best rating Normal conditions Apparatus: Atlas Ci4000 Xenon Weather-Ometer	173 Colour fastness: 5
Colour fastness to artificial light DS/EN ISO 105:B02:2014 Method 2 1-8 scale, 8 best rating Normal conditions Apparatus: Atlas Ci4000 Xenon Weather-Ometer	183 Colour fastness: 5-6
Colour fastness to artificial light DS/EN ISO 105:B02:2014 Method 2 1-8 scale, 8 best rating Normal conditions Apparatus: Atlas Ci4000 Xenon Weather-Ometer	193 Colour fastness: 5-6

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Test Methods	Results
Colour fastness to artificial light DS/EN ISO 105:B02:2014 Method 2 1-8 scale, 8 best rating Normal conditions Apparatus: Atlas Ci4000 Xenon Weather-Ometer	113 Colour fastness: 7
Colour fastness to artificial light DS/EN ISO 105:B02:2014 Method 2 1-8 scale, 8 best rating Normal conditions Apparatus: Atlas Ci4000 Xenon Weather-Ometer	133 Colour fastness: 5
Colour fastness to artificial light DS/EN ISO 105:B02:2014 Method 2 1-8 scale, 8 best rating Normal conditions Apparatus: Atlas Ci4000 Xenon Weather-Ometer	152 Colour fastness: 6
Colour fastness to artificial light DS/EN ISO 105:B02:2014 Method 2 1-8 scale, 8 best rating Normal conditions Apparatus: Atlas Ci4000 Xenon Weather-Ometer	153 Colour fastness: 6
Colour fastness to artificial light DS/EN ISO 105:B02:2014 Method 2 1-8 scale, 8 best rating Normal conditions Apparatus: Atlas Ci4000 Xenon Weather-Ometer	1079 Colour fastness: 6-7

Test Report

Report No.: A 895004-1



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Page 1 of 1
Chf/Ieln
Order no.: 895004
No. of appendices: 1

Subject: Upholstery fabric designated: Sunniva 3, 58% new wool, 25% viscose, 8% linen, 5% nylon, 4% polyester. (as per info from the assigner).

Sampling: The test material was sampled by the client and received at the Danish Technological Institute 11.10.2019

Method: See Appendix 1.

Period: The testing was completed 12.11.2019

Result: Individual results appear from Appendix 1.

Storage: The test material will be destroyed after 6 months, unless otherwise agreed.

Terms: The accredited test was carried out according to DANAK's general conditions see www.danak.dk and according to the General Terms and Conditions regarding Commissioned Work Accepted by the Danish Technological Institute, which apply at the time of signing the agreement. The test is only valid for the tested specimen. The test report may only be extracted, if the laboratory has approved the extract.

Date/place: 12.11.2019, Danish Technological Institute, Wood and Biomaterials, Textile, Taastrup

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Report no.: A 895004-1
 Appendix: 1
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 Initials: Chf/leln

Test Methods	Results
Colour fastness to artificial light DS/EN ISO 105:B02:2014 Method 2 1-8 scale, 8 best rating Normal conditions Apparatus: Atlas Ci4000 Xenon Weather-Ometer	863 Colour fastness: 5-6
Colour fastness to artificial light DS/EN ISO 105:B02:2014 Method 2 1-8 scale, 8 best rating Normal conditions Apparatus: Atlas Ci4000 Xenon Weather-Ometer	953 Colour fastness: 5-6

Test Report

Report No.: A 921007-1



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Page 1 of 1
Chf/leln
Order no.: 921007
No. of appendices: 1

Subject: Upholstery fabric.
Sunniva 3, 58% new wool, 25% viscose, 8% linen, 5% nylon, 4% polyester (as per info from the assigner).

Sampling: The test material was sampled by the client and received at the Danish Technological Institute 11.03.2020

Method: See Appendix 1.

Period: The testing was completed 22.04.2020

Result: Individual results appear from Appendix 1.

Storage: The test material will be destroyed after 6 months, unless otherwise agreed.

Terms: The accredited test was carried out according to DANAK's general conditions see www.danak.dk and according to the General Terms and Conditions regarding Commissioned Work Accepted by the Danish Technological Institute, which apply at the time of signing the agreement. The test is only valid for the tested specimen. The test report may only be extracted, if the laboratory has approved the extract.

Date/place: 23.04.2020, Danish Technological Institute, Wood and Biomaterials, Textile, Taastrup

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Report no.: A 921007-1
 Appendix: 1
 Page: 1 of 1
 Initials: Chf/leln

Test Methods	Results
Colour fastness to artificial light DS/EN ISO 105:B02:2014 Method 2 1-8 scale, 8 best rating Normal conditions Apparatus: Atlas Ci4000 Xenon Weather-Ometer	132 Colour fastness: 6
Colour fastness to artificial light DS/EN ISO 105:B02:2014 Method 2 1-8 scale, 8 best rating Normal conditions Apparatus: Atlas Ci4000 Xenon Weather-Ometer	152 Colour fastness: 6
Colour fastness to artificial light DS/EN ISO 105:B02:2014 Method 2 1-8 scale, 8 best rating Normal conditions Apparatus: Atlas Ci4000 Xenon Weather-Ometer	242 Colour fastness: 6
Colour fastness to artificial light DS/EN ISO 105:B02:2014 Method 2 1-8 scale, 8 best rating Normal conditions Apparatus: Atlas Ci4000 Xenon Weather-Ometer	352 Colour fastness: 7
Colour fastness to artificial light DS/EN ISO 105:B02:2014 Method 2 1-8 scale, 8 best rating Normal conditions Apparatus: Atlas Ci4000 Xenon Weather-Ometer	662 Colour fastness: 7
Colour fastness to artificial light DS/EN ISO 105:B02:2014 Method 2 1-8 scale, 8 best rating Normal conditions Apparatus: Atlas Ci4000 Xenon Weather-Ometer	752 Colour fastness: 5
Colour fastness to artificial light DS/EN ISO 105:B02:2014 Method 2 1-8 scale, 8 best rating Normal conditions Apparatus: Atlas Ci4000 Xenon Weather-Ometer	952 Colour fastness: 6

Test Report

Report Number:
966272-1-TEX



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Init.: CHF/LELN
Order no.: 966272
Encl.: 2

- Assignor:** Kvadrat A/S, Lundbergsvej 10 , DK-8400 Ebeltoft
- Material:** Upholstery fabric designated: Sunniva 811. See enclosure A for detailed sample description.
- Sampling:** The assignor confirms having selected the product. The product was forwarded by the assignor and received at Danish Technological Institute on 1 February 2021.
- Period:** The test took place from 2 February 2021 to 17 February 2021.
- Method:** The test methods used are referenced in connection with the results. See enclosure B.
- Test results:** The results are shown in enclosure B.
- Terms:** This test was conducted accredited in accordance with international requirements (ISO/IEC 17025:2017) and in accordance with the General Terms and Conditions of Danish Technological Institute. The test results solely apply to the tested item. This test report may be quoted in extract only if Danish Technological Institute has granted its written consent.
- Place:** Danish Technological Institute, Taastrup, Building and Construction
- Signature:** This document is only valid with a digital signature from Danish Technological Institute. The date of issue appears from the digital signature.
- Charlotte Fischer
Senior Consultant



DIGITALLY SIGNED DOCUMENT

18 February 2021

DANISH TECHNOLOGICAL INSTITUTE



DANAK

TEST Reg.no. 2

Enclosure: A



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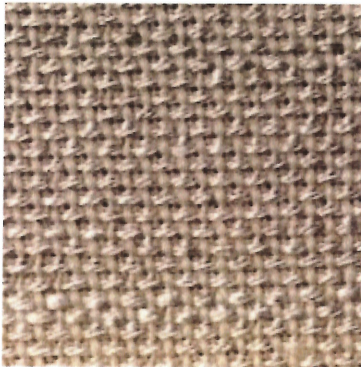
Sample

Description: Upholstery fabric

Designated: Sunniva 811

Fibre content: 58% new wool, 25% viscose, 8% linen, 5% nylon, 4% polyester

Photo:



Enclosure: B



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Results

Test of Upholstery fabric designated: Sunniva 811

Colour fastness to artificial light: Xenon arc fading lamp test

EN ISO 105-B02:2014 Method 2

1-8 scale, 8 best rating

Test apparatus: Atlas Ci4000 Xenon Weather-Ometer

Colour fastness
6
