

Test Report

Report Number:
162137-1-TEX



**DANISH
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Page 1 of 7
Init.: CHF/LELN
Order no.: 162137
Encl.: 0

Assignor: KINNASAND GMBH, Danziger Strasse 6 , D-26655 Westerstede, Germany

Material: Samples of rugs designated: Lavo 2. See page 2 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 27 October 2022.

Period: The test took place from 28 October 2022 to 28 November 2022.

Method: The test methods used are referenced in connection with the results. See page 4.

Test results: The results are shown from page 4 onwards.

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, Environmental Technology

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

28 November 2022

DANISH TECHNOLOGICAL INSTITUTE



DANAK

TEST Reg.no. 2



Samples

Sample mark	Description	Photo
120	Samples of rugs Designated: Lavo 2	
130	Samples of rugs Designated: Lavo 2	
180	Samples of rugs Designated: Lavo 2	
190	Samples of rugs Designated: Lavo 2	
250	Samples of rugs Designated: Lavo 2	



Samples (*continued*)

Sample mark	Description	Photo
280	Samples of rugs Designated: Lavo 2	
290	Samples of rugs Designated: Lavo 2	



Results

Test of Samples of rugs designated: Lavo 2

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

Sample mark	Colour fastness
120	6
130	6
180	6
190	7
250	5-6
280	6
290	6

Colour fastness to rubbing

EN ISO 105-X12:2016

Test conditions: 21°C, 65% RH

Conditioning time: 24 h

Soak: 100%

1-5 scale, 5 best rating

Rubbing finger: Cylinder 16 mm

Force: 9 N

Staining Sample	Warp direction		Weft direction	
	Dry rubbing	Wet rubbing	Dry rubbing	Wet rubbing
120	4	4-5	4-5	4-5
130	3	3	3	3
180	3	3-4	3	4
190	3-4	4-5	3-4	4-5
250	3-4	4-5	4	4-5
280	3	4	3	4
290	2-3	2-3	2-3	2-3



Colour fastness to water

EN ISO 105-E01:2013

Test conditions: 21°C, 65% RH

1-5 scale, 5 best rating

Sample	Adjacent fabric	Staining of	Rating
120	Multifibre DW ISO 105-F10:1989 + ISO 105-F10:1989/AMD 1:2009	Acetate:	5
		Cotton:	5
		Polyamide:	5
		Polyester:	5
		Acrylic:	5
		Wool:	5
		Change in colour:	5
130		Acetate:	5
		Cotton:	5
		Polyamide:	5
		Polyester:	5
		Acrylic:	5
		Wool:	5
		Change in colour:	4-5
180	Multifibre DW ISO 105-F10:1989 + ISO 105-F10:1989/AMD 1:2009	Acetate:	5
		Cotton:	5
		Polyamide:	5
		Polyester:	5
		Acrylic:	5
		Wool:	5
		Change in colour:	5
190	Multifibre DW ISO 105-F10:1989 + ISO 105-F10:1989/AMD 1:2009	Acetate:	4-5
		Cotton:	4-5
		Polyamide:	4-5
		Polyester:	4-5
		Acrylic:	4-5
		Wool:	4-5
		Change in colour:	4-5
250	Multifibre DW ISO 105-F10:1989 + ISO 105-F10:1989/AMD 1:2009	Acetate:	5
		Cotton:	5
		Polyamide:	5
		Polyester:	5
		Acrylic:	5
		Wool:	5
		Change in colour:	5



Colour fastness to water (continued)

Sample	Adjacent fabric	Staining of	Rating
280	Multifibre DW ISO 105-F10:1989 + ISO 105-F10:1989/AMD 1:2009	Acetate:	5
		Cotton:	5
		Polyamide:	5
		Polyester:	5
		Acrylic:	5
		Wool:	5
		Change in colour:	4-5
290	Multifibre DW ISO 105-F10:1989 + ISO 105-F10:1989/AMD 1:2009	Acetate:	4-5
		Cotton:	4-5
		Polyamide:	4-5
		Polyester:	4-5
		Acrylic:	4-5
		Wool:	4-5
		Change in colour:	4-5

Test Report

Report No.: A 877602-1



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Chf/leln
Order no.: 877602
No. of appendices: 1

Subject: Rug sample Lavo- 7280000, 80% pure new Sand. Wool, 20% pure new wool (as per info from the assigner).

Sampling: The test material was sampled by the client and received at the Danish Technological Institute 14.06.2019

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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Co-signatory



Report no.: A 877602-1
 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	0011 Stony blue Colour fastness: 4-5
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	0012 Sand 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	0003 Soya 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	0005 Rose wood 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	0006 Linen 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	00014 Eucalyptus 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	0025 Greyish eggplant 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	0002 Oat Colour fastness: 6

Test Report

Report No.: A 869576-8



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Page 1 of 1
Chf/Ieln
Order no.: 869576
No. of appendices: 1

Subject: Fabric sample art: Lavo-7280000, col: 0014 eucalyptus. (as per info from the assigner)
Fibre content: 80% pure new New Zealand wool, 20% pure new wool. (as per info from the assigner)



Sampling: The test material was sampled by the client and received at the Danish Technological Institute 30.04.2019

Method: See Appendix 1.

Period: The testing was completed 08.05.2019

Result: Individual results appear from Appendix 1.

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

Terms: Accredited testing was carried out in compliance with international requirements (EN/ISO/IEC 17025:2005) and in compliance with Danish Technological Institute's General Terms and Conditions regarding Commissioned Work accepted by Danish Technological Institute. The test results apply to the tested products only. This report may be quoted in extract only if the laboratory has granted its written consent.

Date/place: 11.06.2019, Danish Technological Institute, Wood and Biomaterials, Textile, Taastrup

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Report no.: A 869576-8
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	014 Colour fastness: 6

Test Report

Report No.: A 869576-9



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Page 1 of 1
Chf/Ieln
Order no.: 869576
No. of appendices: 1

Subject: Fabric sample art: Lavo-7280000, col: 0002 oat. (as per info from the assigner)
Fibre content: 80% pure new New Zealand wool, 20 % pure new wool. (as per info from the assigner)



Sampling: The test material was sampled by the client and received at the Danish Technological Institute 30.04.2019

Method: See Appendix 1.

Period: The testing was completed 08.05.2019

Result: Individual results appear from Appendix 1.

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

Terms: Accredited testing was carried out in compliance with international requirements (EN/ISO/IEC 17025:2005) and in compliance with Danish Technological Institute's General Terms and Conditions regarding Commissioned Work accepted by Danish Technological Institute. The test results apply to the tested products only. This report may be quoted in extract only if the laboratory has granted its written consent.

Date/place: 11.06.2019, Danish Technological Institute, Wood and Biomaterials, Textile, Taastrup

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Report no.: A 869576-9
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	0002 Colour fastness: 7

Test Report

Report No.: A 869576-10



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Chf./leln
Order no.: 869576
No. of appendices: 1

Subject: Fabric sample art: Lavo-7280000, col: 0010 chalky brick. (as per info from the assigner)
Fibre content: 80% pure new New Zealand wool, 20% pure new wool. (as per info from the assigner)



Sampling: The test material was sampled by the client and received at the Danish Technological Institute 30.04.2019

Method: See Appendix 1.

Period: The testing was completed 08.05.2019

Result: Individual results appear from Appendix 1.

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

Terms: Accredited testing was carried out in compliance with international requirements (EN/ISO/IEC 17025:2005) and in compliance with Danish Technological Institute's General Terms and Conditions regarding Commissioned Work accepted by Danish Technological Institute. The test results apply to the tested products only. This report may be quoted in extract only if the laboratory has granted its written consent.

Date/place: 11.06.2019, Danish Technological Institute, Wood and Biomaterials, Textile, Taastrup

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Report no.: A 869576-10
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	0010 Colour fastness: 5

Test Report

Report No.: A 884407



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Page 1 of 1
Chf/leln
Order no.: 884407
No. of appendices: 1

Subject: Rug Art. Lavo, colour basalt 0033 (as per info from the assigner).

Sampling: The test material was sampled by the client and received at the Danish Technological Institute 16.08.2019

Method: See Appendix 1.

Period: The testing was completed 10.09.2019

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: 11.09.2019, Danish Technological Institute, Wood and Biomaterials, Textile, Taastrup

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Report no.: A 884407-1
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	Colour fastness: 7