

Test Report

Report Number:
126360-1-TEX



**DANISH
TECHNOLOGICAL
INSTITUTE**

Gregersensvej 1
DK-2630 Taastrup
+45 72 20 20 00
info@teknologisk.dk
www.teknologisk.dk

Page 1 of 7
Init.: CHF/LELN
Order no.: 126360
Encl.: 0

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

Material: Samples of rugs designated: March Product No: 20134. 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 28 February 2022.

Period: The test took place from 1 March 2022 to 30 March 2022.

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

Test results: The results are shown on page 4.

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

31 March 2022

DANISH TECHNOLOGICAL INSTITUTE



DANAK

TEST Reg.no. 2



Samples

Sample mark	Description	Photo
111	Sample of rug Designated: March 0111 Wool white	
131	Sample of rug Designated: March 0131 Pebble	
141	Sample of rug Designated: March 0141 Stone	
221	Sample of rug Designated: March 0221 Almond	
331	Sample of rug Designated: March 0331 Mouse	
391	Sample of rug Designated: March 0391 Dark Brown	



Samples (*continued*)

Sample mark	Description	Photo
421	Sample of rug Designated: March 0421 Butter	
541	Sample of rug Designated: March 0541 Peach	
731	Sample of rug Designated: March 0731 Forget-me-not	



Results

Test of Samples of rugs designated: March Product No: 20134

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
111	7
131	6-7
141	6
221	6
331	6-7
391	7
421	6
541	6
731	6

Colour fastness to rubbing

EN ISO 105-X12:2016

Test conditions: 21°C, 65% RH

1-5 scale, 5 best rating

Rubbing finger: Cylinder 16 mm

Force: 9 N

Staining	Warp direction		Weft direction	
Sample mark	Dry rubbing	Wet rubbing	Dry rubbing	Wet rubbing
111	4-5	4-5	4-5	4-5
131	4-5	4-5	4-5	4-5
141	4-5	4-5	4-5	4-5
221	4-5	4-5	4-5	4-5
331	4-5	4-5	4-5	4-5
391	4-5	4	4-5	4
421	4-5	4-5	4-5	4-5
541	4-5	4-5	4-5	4-5
731	4-5	4-5	4-5	4-5



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
111	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
131	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
141	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
221	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
331	Multifibre DW ISO 105-F10:1989 + ISO 105-F10:1989/AMD 1:2009	Acetate:	4-5
		Cotton:	4
		Polyamide:	4
		Polyester:	4-5
		Acrylic:	4-5
		Wool:	4-5
		Change in colour:	4-5



Colour fastness to water (continued)

Sample	Adjacent fabric	Staining of	Rating
391	Multifibre DW ISO 105-F10:1989 + ISO 105-F10:1989/AMD 1:2009	Acetate: Cotton: Polyamide: Polyester: Acrylic: Wool: Change in colour:	4 2-3 2 4 4-5 3 4-5
421	Multifibre DW ISO 105-F10:1989 + ISO 105-F10:1989/AMD 1:2009	Acetate: Cotton: Polyamide: Polyester: Acrylic: Wool: Change in colour:	4-5 4 4-5 4-5 4-5 4-5 4-5
541	Multifibre DW ISO 105-F10:1989 + ISO 105-F10:1989/AMD 1:2009	Acetate: Cotton: Polyamide: Polyester: Acrylic: Wool: Change in colour:	4-5 4 4 4-5 4-5 4-5 4-5
731	Multifibre DW ISO 105-F10:1989 + ISO 105-F10:1989/AMD 1:2009	Acetate: Cotton: Polyamide: Polyester: Acrylic: Wool: Change in colour:	4-5 4-5 4-5 4-5 4-5 4-5 4-5