

# Test Report

Report Number:  
162137-1-TEX



**DANISH  
TECHNOLOGICAL  
INSTITUTE**

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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



**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*

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#### 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

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#### 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

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## 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