



**DANISH
TECHNOLOGICAL
INSTITUTE**

Test Report no. A 645440-1

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Kvadrat A/S, Lundbergsvej 10, 8400 Ebeltoft	
Test material: Upholstery fabric	
Design: Remix 2	Received: 13-04-2015 Completed: 18-05-2015
Fibre content: 90% new wool, 10% nylon (Manufacturer's information)	Sample no.: 645440-1
Care label: (Not given)	Your ref.: Lone Henriksen

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: 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	123 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: 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	143 Colour fastness: 7

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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	152 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	163 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	173 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	183 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	223 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	233 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	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	252 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	362 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	373 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	383 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	393 Colour fastness: 6-7

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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	412 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	422 Colour fastness: 4-5 <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	433 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	443 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	452 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	543 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	612 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	632 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	643 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	653 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	662 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	672 Colour fastness: 5

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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	682 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	692 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	722 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	733 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	743 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	753 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	762 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	773 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	783 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	823 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	842 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	852 Colour fastness: 6-7

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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	873 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	912 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	923 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	933 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	942 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	954 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	962 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	973 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	982 Colour fastness: 6

The test has been performed according to the attached conditions, which are according to the guidelines laid down by DANAK (The Danish Accreditation). The testing is only valid for the tested specimen. The test report may only be extracted, if the laboratory has approved the extract.

This report was generated by software version 2.46 of 2014-04-26.

18 May 2015, Danish Technological Institute, Textile

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8 June 2015

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Our Ref: 29/01178/05/15
Your Ref: LH/lh

Client: Kvadrat A/S

Address: Lundbergsvej 10
8400 Ebeltoft
Denmark

Job Title: Colour Fastness to Light Test on One Sample of Fabric

Client's Order Ref:

Date of Receipt: 26 May 2015

Description of Sample(s): One sample of woven upholstery fabric, referenced by the Client:-
Remix 2, 422, 90% new wool, 10% nylon

Work Requested: Colour fastness to light in accordance with ISO 105-B02 Method 2

Shirley Technologies Limited. Registered Office :
Wira House, West Park Ring Road, Leeds, LS16 6QL.
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VAT Number GB 816764800.

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business, copies of which are available on request.
Our laboratories are accredited to EN ISO/IEC 17025



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8 June 2015

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Our Ref: 29/01178/05/15
Your Ref: LH/lh
Client: Kvadrat A/S

Colour Fastness to Artificial Light: Xenon Arc Fading Lamp Test

The sample was tested in accordance with BS EN ISO 105-B02:2014 - Method 2 (ISO 105-B02:2014) using the following:-

apparatus: Xenotest 150
exposure conditions: normal
test mode: flip-flop
blue wool reference materials used: 2 to 6

By comparison with the behaviour of the blue wool reference materials, the numerical rating for the colour fastness to light is given below – 1 represents very low colour fastness to light, through to 8 which represents very high colour fastness to light.

Colour fastness to light rating

'better than 6'

Reported by:

J. Bullers

J M Bullers (Mrs)
Operational Head – Textiles

Countersigned by:

M. Nunney

M Nunney
Director

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Our Ref: SW/LS/JD

8 November 2019

Report 353301

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Wooltex UK Limited
Woodland Mill
Dale Street
Longwood
Huddersfield, Yorkshire
HD3 4TG

Contact: Laura Franklin

DATE RECEIVED	: 29 OCT 2019
QUALITY/REFERENCE	: REMIX
REPUTED FIBRE CONTENT	: 90% WOOL, 10% NYLON
FABRIC DESCRIPTION	: WOVEN
COLOUR/DESIGN	: 126, 136, 196, 266, 276, 286, 296, 326, 346, 356, 406, 516, 536, 566, 606, 686, 716, 796, 816, 836, 866, 906, 996
PERFORMANCE STANDARD	: GENERAL



REQUEST: Colour fastness to light

S. Wiseman

L Sheridan

S. WISEMAN
LABORATORY DIRECTOR

L. SHERIDAN
LABORATORY MANAGER

This report may not be reproduced except in full without the written approval of HSTTS. In all circumstances results of tests are implied as referring only to the sample supplied and should not be construed or interpreted on any other basis. The comments given in the report are for guidance only and are not a part of the results. Where specified in a test method, preconditioning in accordance with ISO 139 is not carried out as samples are exposed to the conditioning atmosphere specified within ISO 139 for a minimum of 16 hours prior to test.



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Report 353301

COLOUR FASTNESS TO:

BS EN ISO 105-B02:2014 Light Fastness Blue Wool 6

	Shade change
516	6
536	5
566	6
606	6
686	5-6
716	6
797	6+
816	6
276	6+
286	6+
296	6+
326	5-6
346	6
356	6+
406	6

BS EN ISO 105-B02:2014 Light Fastness Blue Wool 6

	Shade change
836	6+
866	6+
906	6+
996	6+
126	6+
136	6+
196	6+
266	6+