



Shirley
Technologies
Limited

Confidential Report

Our Ref: 29/02631B/04/19

Shirley Technologies Limited. Registered Office: Wira House, West Park Ring Road, Leeds, LS16 6QL.
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7 May 2019

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Our Ref: 29/02631B/03/19
Your Ref:

Client: Gudbrandsdalens Uldvarefabrik

Address: P.O. Box 836
NO-2626 Lillehammer
Norway

Job Title: Colour Fastness to Rubbing Test on Fifteen Samples of Fabric

Client's Order Ref:

Date of Receipt: 15 April 2019

Description of Sample(s): Fifteen full width samples of woven upholstery fabric referenced by the Client:-

Quality: 5215 Heddal Stitched

Colours: 145, 155, 160, 175, 180, 188, 325, 480, 615, 710, 845, 940, 190, 265, 645.

Work Requested: Colour fastness to wet and dry rubbing – EN ISO 105-X12: 2016

Note: This report relates only to the sample/s submitted and as described in this report.

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Testing atmosphere: Unless otherwise specified the sample(s) has been conditioned and tested, where appropriate, in the standard atmosphere for conditioning and testing textiles (BS EN ISO 139:2005 + A1:2011) of 65±4% r.h. and 20±2°C.

Colour Fastness to Rubbing

The samples were tested in accordance with BS EN ISO 105-X12:2016 using the following test conditions:-

- a Crockmeter as specified in section 4.1.2.
- a cylindrical rubbing finger exerting a downward force of 9N
- dry and wet rubbing (wet rubbing take-up of 100%)
- conditioning time of the specimens and rubbing cloth minimum 4 hours
- atmospheric conditions during testing 65±4%rh and 20±2°C
- specimens were tested in the warp and weft directions
- the staining of the cotton rubbing fabric was assessed using standard grey scales; 5 represents no staining and 1 represents severe staining.

Colour	Direction	Staining of rubbing fabric	
		10 rubs wet	10 rubs dry
145	warp	4-5	4-5
	weft	4-5	4-5
155	warp	4-5	4-5
	weft	4-5	4-5
160	warp	5	5
	weft	5	4-5
175	warp	4-5	5
	weft	4-5	5
180	warp	4-5	4-5
	weft	4-5	4-5
188	warp	4-5	4-5
	weft	4-5	4-5
325	warp	4-5	4-5
	weft	4-5	4-5

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Colour	Direction	Staining of rubbing fabric	
		10 rubs wet	10 rubs dry
480	warp	4-5	4-5
	weft	4-5	4-5
615	warp	4-5	5
	weft	4-5	5
710	warp	4-5	5
	weft	4-5	5
845	warp	4-5	5
	weft	4-5	5
940	warp	4-5	4-5
	weft	4-5	4-5
190	warp	3-4	3-4
	weft	3-4	3-4
265	warp	4-5	4-5
	weft	4-5	4-5
645	warp	4-5	4-5
	weft	4-5	4-5

Reported by:

.....*L.I. Butler*.....

L I Butler (Mrs)
Senior Laboratory Technician

Countersigned by:

.....*J.M. Bullers*.....

J M Bullers (Mrs)
Manager

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