Shirley Technologies Limited

Confidential Report

Our Ref: 29/02126C/03/17

Shirley Technologies Limited
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Our Ref:	29/02126C/03/17
Your Ref:	
Client:	Gudbrandsdalens Uldvarefabrik as
Address:	N-2626 Lillehammer Norway
Job Title:	Determination of Abrasion Resistance on One Sample
Client's Order Ref:	
Date of Receipt:	8 March 2017
Description of Sample(s):	One full width sample of woven fabric referenced by the Client:- **5080 Ledal**
Work Requested:	ISO 12947-2:1999, Martindale abrasion, end point 2 threads broken, 12kPa Colour change by abrasion at 3,000 and 15,000 rubs

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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.

Determination of the Abrasion Resistance of Fabrics by the Martindale Method – Determination of Specimen Breakdown

Date of test start: 24.03.17. Four specimens from the sample were tested, under a nominal pressure of 12 kPa(795±7g), with foam backing as requested by the Client, in accordance with BS EN ISO 12947-2:1998, using a Martindale abrasion tester as described in BS EN ISO 12947-1:1998.
Specimen breakdown (end point) was reached when two separate threads had completely broken. The change of shade of the test specimens was assessed after both 3,000 rubs and 15,000 rubs, as requested by the Client, in accordance with ISO 105-A02. The tested specimens have been returned separately.

	No. of rubs to end point
	85,000
	94,000
	82,000
	82,000
mean:	86,000

Observations during testing: total loss of cover (nap) at approximately 6,000 rubs.

Assessment: maximum colour change at 3,000 rubs: grey scale 3 (darker)
maximum colour change at 15,000 rubs: grey scale 3 (darker)

Reported by: ..... L I Butler (Mrs)
Senior Technician - Textiles

Countersigned by: ..... J M Bullers (Mrs)
Operational Head – Textiles