

Shirley
Technologies
Limited

Confidential Report

Our Ref: 29/00911B/11/14

Shirley Technologies Limited. Registered Office :
Wira House, West Park Ring Road, Leeds, LS16 6QL.
A company registered in England & Wales with company number 04669651.
VAT Number GB 816764800.
The supply of all goods and services is subject to our standard terms of
business, copies of which are available on request.
Our laboratories are accredited to EN ISO/IEC 17025





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5 January 2015

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Our Ref: 29/00911B/11/14
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: 24 November 2014

Description of Sample(s): One full width sample of woven fabric referenced by the Client:-
Quality 9351

Work Requested: EN ISO 12947-2 abrasion, with colour change assessments at 3000 and 5000 rubs.

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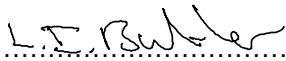
Testing atmosphere: Unless otherwise specified the sample(s) has been conditioned and tested, where appropriate, in the standard atmosphere for conditioning and testing textiles (BS EN ISO 139:2005 + A1:2011) of 65±4% r.h. and 20±2°C.


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

Date of test start: 15.12.14. 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 in accordance with ISO 105-A02. The tested specimens have been returned separately.

<u>No. of rubs to end point</u>
158,000
156,000
153,000
<u>156,000</u>
mean: 156,000

Assessment: maximum colour change at 3000 rubs: grey scale 3-4
maximum colour change at 5000 rubs: grey scale 3-4

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

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

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