



Shirley
Technologies
Limited

Confidential Report

Our Ref: 30488-2

Wira House, West Park Ring Road,
Leeds, West Yorkshire, LS16 6QL
United Kingdom

Tel: +44 (0)113 274 3434 Fax: +44 (0)113 274 8344
e-mail: info@shirleytech.co.uk





Wira House, West Park Ring Road,
Leeds, West Yorkshire, LS16 6QL
United Kingdom

Tel: +44 (0)113 274 3434
Fax: +44 (0)113 274 8344

e-mail: info@shirleytech.co.uk
Web: www.shirleytech.com

17 January 2012

Page 1 of 2

Our Ref: 30488-2
Your Ref:

Client: Gudbrandsdalens Uldvarefabrik as

Address: N-2626 Lillehammer
Norway

Job Title: Determination of Abrasion Resistance on One Sample of Fabric

Client's Order Ref:

Date of Receipt: 14 December 2011

Description of Sample(s): One full width sample of woven fabric reference:-
Quality 5532 – Arkiv Collection 3 – Kvalitet 220

Work Requested: BS EN ISO 12947-2:1999, abrasion

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.

Our laboratories are accredited to EN ISO/IEC 17025



1066



Wira House, West Park Ring Road,
Leeds, West Yorkshire, LS16 6QL
United Kingdom

Tel: +44 (0)113 274 3434
Fax: +44 (0)113 274 8344

e-mail: info@shirleytech.co.uk
Web: www.shirleytech.com

17 January 2012

Page 2 of 2

Our Ref: 30488-2
Your Ref:

Client: Gudbrandsdalens Uldvarefabrik as

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: 04.01.12. 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.

The reference abradant was mounted over woven backing felt and specimen breakdown (end point) was reached when two separate threads had completely broken. The change of shade of the test specimens was not assessed. The tested specimens are enclosed.

	<u>No. of rubs to end point</u>
	140,000
	130,000
	142,000
	<u>125,000</u>
mean:	134,500

Observations during testing

At approximately 60,000 rubs the blue coloured component only, present in the warp yarns, began to breakdown.

At approximately 110,000 rubs the grey coloured component only, present in the weft yarns, began to breakdown.

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

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

Enquiries concerning this report should be addressed to Customer Services.

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.

Our laboratories are accredited to EN ISO/IEC 17025

