

Shirley Technologies Ltd

CONFIDENTIAL TEST REPORT

WIRA House
West Park Ring Road
Leeds, LS16 6QL
England

Tel: 44 (0) 113 259 1999
Fax: 44(0) 113 278 0306

Our Ref: 16686B
Your Ref:
Order No:

29 June 2004
Page 1 of 2
Gudbrandsdalens Uldvarefabrik as

Client: Gudbrandsdalens Uldvarefabrik as
N-2626 Lillehammer
Norway

Job Title: Determination Of Abrasion Resistance On One Sample

Material Received: 7 June 2004

Description of Sample(s): One full width sample of woven fabric reference:-
Quality 5055

Brief: Shirley Technologies Ltd. were requested to carry out testing to ISO 12947-2 on the sample supplied.

UKAS Accreditation: Our Laboratories are UKAS accredited. However, it should be noted that:
tests marked * are not UKAS accredited in this report and are not included in the UKAS Accreditation Schedule for our laboratory, either due to the work not conforming fully to the standard (e.g. reduced number of specimens) or to it being outside the scope of our accreditation, or subcontracted

Testing Atmosphere: Unless otherwise specified the sample has been conditioned and tested, where appropriate, in the standard atmosphere for conditioning and testing textiles (BS EN20139:1992) of 65±2% r.h. and 20±2°C.

This report is incomplete without all the pages specified above, together with a copy of our standard terms of business.



Reg. Office: Shirley Technologies Ltd.,
Wira House, West Park Ring Road, Leeds LS16 6QL, UK.
The supply of all goods and services is subject to our standard terms of business,
copies of which are available on request. (<<http://www.bttg.co.uk/>>).
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Page 2 of 2
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Abrasion Resistance Of Fabrics By The Martindale Method

Four specimens from the sample were tested, under a nominal pressure of 12 kPa (795±7g) in accordance with BS EN ISO 12947-2:1999, using a Martindale abrasion tester as described in BS EN ISO 12947-1:1999.

The reference abradant was mounted over woven backing felt and the physically significant end point assessed when at least two individual threads had broken. The change of shade of the test specimens was not assessed.

The tested specimens are enclosed.

No. of rubs to end point

110,000
100,000
115,000
100,000

mean: 106,500

Observations: pills were formed and were cut off throughout the test.

The information contained on page no's 1/2 of this certificate is hereby certified to be a correct statement of the tests and investigations carried out by Shirley Technologies Ltd. on the materials referred to.

Signed... *L. F. Butler* Date *29.6.04*

L I Butler (Mrs)
Senior Technician - Textiles

Signed... *Julia Bullers* Date *29.6.2004*

J M Bullers (Mrs)
Operational Head - Textiles

JMB/16686B

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Web: <http://www.bttg.co.uk>

Tested specimens

ABRASION RESISTANCE BS EN ISO 12947-2:1999

Firm: Gudbrandsdalens Uldvarefabrik as

Reference: 16686B

Sample reference: Quality 5055

Total pressure: 12kPa

Original



Specimen 1
No. rubs:

110,000



Specimen 2
No. rubs:

100,000



Specimen 3
No. rubs:

115,000



Specimen 4
No. rubs:

100,000



Mean no. rubs: 106,500