

## CONFIDENTIAL TEST REPORT

Our Ref : 29263-1  
Your Ref :

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7 July 2011

**Client:** Kvadrat A/S  
Lundbergsvej 10  
8400 Ebeltoft  
Denmark

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

**Client's order no.:**  
**Date of receipt:** 22 June 2011  
**Date of test start:** 29 June 2011

**Description of sample(s):** One sample of woven fabric measuring approximately 22cm. x 22cm., described by the Client as upholstery fabric, reference:-  
**Metric by Maharam, Colour 017 Caramel  
51% post-industrial recycled polyester, 49% polyester**

**Work requested:** Shirley Technologies Ltd. was requested to carry out the following test/s on the sample/s supplied:-  
  
Martindale abrasion resistance to EN ISO 12947

**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 EN ISO 139:2005) of 65±4% r.h. and 20±2°C.

This report is incomplete without all the pages specified above, together with a copy of our conditions of sale. Results of all tests quoted in this report, issued by the Company, relate only to the sample/s supplied and should not be construed or interpreted in any other way.



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The supply of all goods and services is subject to our standard terms of business,  
copies of which are available on request. (<http://www.shirleytech.co.uk>).  
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### Determination of the Abrasion Resistance of Fabrics by the Martindale Method – Determination of Specimen Breakdown

Date of test start: 29.06.11. Four specimens from the sample were tested, under a nominal pressure of 12 kPa(795±7g) 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>
	74,000
	90,000
	63,000
	<u>70,000</u>
mean:	74,500

Observations during testing: pills formed at approximately 3,000 rubs and continued throughout the test; these were cut off at intervals.

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 I Butler* ..... Date..... *7.7.11* .....

L I Butler (Mrs)  
Senior Technician - Textiles

Signed..... *Julia Bullers* ..... Date..... *7.7.11* .....

J M Bullers (Mrs)  
Operational Head - Textiles

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