



Shirley  
Technologies  
Limited

## Confidential Report

**Our Ref: 29/02553C/12/18**

Shirley Technologies Limited. Registered Office : Wira House, West Park Ring Road, Leeds, LS16 6QL.  
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09 January 2019

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Our Ref: 29/02553C/12/18  
Your Ref:

Client: Kvadrat A/S

Address: Lundbergsvej 10  
8400 Ebeltoft  
Denmark

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

Client's Order Ref:

Date of Receipt: 10 December 2018

Description of Sample(s): One part width sample of woven upholstery fabric, referenced by the Client:-  
**Divina MD, 100% new wool**

Work Requested: Martindale abrasion resistance to EN ISO 12947-2: 2016

Note: this report relates only to the sample/s submitted and as described in this report.

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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 – Part 2:  
Determination of Specimen Breakdown (ISO 12947-2: 2016)**

Four specimens from the sample were tested, under a nominal pressure of 12 kPa(795±7g) in accordance with BS EN ISO 12947-2:2016, using a Martindale abrasion tester as described in BS EN ISO 12947-1:1998.

Foam was not used to back the test specimens. Specimen breakdown (end point) was reached when two threads had completely broken. The change of shade of the test specimens was not assessed.

Individual results (number of rubs to end point)

50,000  
70,000  
70,000  
50,000

Observations during testing: loss of raised surface (nap) at approximately 16,000 rubs

Result\*: 50,000

Type of fabric: raised fabric

\* The quoted result is the lowest individual test result of all the test specimens tested.

Reported by:

..... *L I Butler* .....

L I Butler (Mrs)  
Senior Laboratory Technician

Countersigned by:

..... *J M Bullers* .....

J M Bullers (Mrs)  
Manager

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