

# **Confidential Report**

Our Ref: 29/00427C/12/13







#### Shirley Technologies Limited

Shirley Technologies Limited Wira House West Park Ring Road Leeds, LS16 6QL United Kingdom

Tel: +44 (0)113 274 3434 Fax: +44 (0)113 274 8344 Web: http://www.shirleytech.com Email: info@shirleytech.co.uk

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Our Ref: 29/00427C/12/13

Your Ref: LH/lh

Client: Kvadrat A/S

Address: Lundbergsvej 10

8400 Ebeltoft Denmark

Job Title: Various Tests on One Sample of Fabric

Client's Order Ref:

Date of Receipt: 20 December 2013

Description of Sample(s): One part width sample of woven fabric, referenced by the Client:-

Vidar 662 (red), 94% new wool, 6% polyamide

Work Requested: abrasion resistance to EN ISO 12947

pilling resistance to EN ISO 12945-2







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<u>Testing atmosphere:</u> 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: 06.01.14. 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. Tested specimens are enclosed.

No. of rubs to end point ≥100,000

<u>Comment:</u> the test was discontinued at 100,000 rubs at the Client's request; end point had not been reached.

### **Determination of Fabric Propensity to Surface Fuzzing and Pilling–Modified Martindale Method** \*Specimens from the sample were tested on a modified Martindale Abrasion Machine.

using wool abradant fabricand a loading weight of 415 ±2g as stated in Annex A, Table A.1, following the Category 1 procedure for upholstery fabrics described in BS EN ISO 12945-2:2000.

The specimens were tested to a total of 5000 rubs, visually assessed at intervals and rated according to Table 1 of the Standard, summarised as follows:-

5 - no change

4 - slight surface fuzzing and/or partially formed pills
3 - moderate surface fuzzing and/or moderate pilling
2 - distinct surface fuzzing and/or distinct pilling
1 - dense surface fuzzing and/or severe pilling

Number of rubs	Pilling grade	<u>Description</u>
500	4-5	fuzzing
1000	4-5	fuzzing
2000	4-5	fuzzing
5000	4	fuzzing







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# test subcontracted.

Reported by: L I Butler (Mrs)

Senior Technician – Textiles

Countersigned by: J M Bullers (Mrs)

Operational Head – Textiles



