

Confidential Report

Our Ref: 29/02329B/01/18



Shirley Technologies Limited

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Our Ref: 29/02329B/01/18

Your Ref: LH/lh

Client: Kvadrat A/S

Address: Lundbergsvej 10

8400 Ebeltoft Denmark

Job Title: Modified Martindale Pilling Test on One Sample of Fabric

Client's Order Ref:

Date of Receipt: 11 January 2018

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

Melange Nap, 111, stated by the Client to be 97% new wool,

3% nylon, worsted

Work Requested: Modified Martindale pilling test 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 $65\pm4\%$ r.h. and 20 ± 2 °C.

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 fabric and a loading weight of $415 \pm 2g$. The specimens were tested for 500, 1,000, 2,000, 5,000 rubs, 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 visually assessed at the required 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

| <u>Pilling grade</u> | <u>Description</u> |
|----------------------|---------------------|
| 3-4 | pilling and fuzzing |
| | 3-4 3-4 |

| Reported by: | J. Bullers | J M Bullers (Mrs) |
|--------------|------------|-----------------------------|
| | U. Dimers | Operational Head - Textiles |

^(#) as agreed, the test was subcontracted to a UKAS accredited laboratory; this test is on their schedule of accreditation.