



Shirley  
Technologies  
Limited

## Confidential Report

**Our Ref: 29/02807/03/20**



Shirley  
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Limited

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3 April 2020

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Our Ref: 29/02807/03/20  
Your Ref:

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: 30 March 2020

Description of Sample(s): One full width sample of woven upholstery fabric, stated by the Client to be 47% new wool, 32% acrylic, 15% viscose, 4% nylon, 2% polyester and referenced by the Client:-

**Helia**

Work Requested: Modified Martindale pilling test to EN ISO 12945-2

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 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 ± 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>Number of rubs</u>	<u>Pilling grade</u>	<u>Description</u>
500	4-5	fuzzing
1,000	4-5	fuzzing
2,000	4-5	fuzzing
5,000	4	fuzzing

Reported by: J. Bullers J M Bullers (Mrs)  
Manager

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