## Confidential Report

## Our Ref: 29/02329B/01/18

## West Park Ring Road

| Our Ref: <br> Your Ref: | 29/02329B/01/18 <br> LH/lh |
| :--- | :--- |
| Client: | Kvadrat A/S |
| Address: | Lundbergsvej 10 <br>  |
|  | 8400 Ebeltoft <br> 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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Kvadrat A/S

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 $65 \pm 4 \%$ r.h. and $20 \pm 2^{\circ} \mathrm{C}$.

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 $415 \pm 2 \mathrm{~g}$. 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

| Number of rubs | Pilling grade | Description |
| :---: | :---: | :---: |
| 500 | 3-4 | pilling and fuzzing |
| 1,000 | 3-4 | pilling and fuzzing |
| 2,000 | 3-4 | pilling and fuzzing |
| 5,000 | 3-4 | pilling and fuzzing |

Reported by:


J M Bullers (Mrs)
Operational Head - Textiles
${ }^{(\#)}$ as agreed, the test was subcontracted to a UKAS accredited laboratory; this test is on their schedule of accreditation.

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[^0]:    Shirley Technologies Limited. Registered Office :
    Wira House, West Park Ring Road, Leeds, LS16 6QL.
    A company registered in England \& Wales with company number 04669651.
    VAT Number GB 816764800
    The supply of all goods and services is subject to our standard terms of
    business, copies of which are available on request.
    Our laboratories are accredited to EN ISO/IEC 17025

