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Date: 23 October 2023

Our Ref: 29/03303/10/23

Your Ref: ---

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Client:

Kvadrat A/S

Lundbergsvej 10
8400 Ebletoft
Denmark

Job Title:

Modified Martindale Pilling Test on Fabric

Clients Order Ref:

Date of Receipt:

13 October 2023

Date Test Started:

17 October 2023

Description of Sample:

One sample of upholstery fabric, which was referenced by the Client as:

Reference: Autumn, 100% Recycled Polyester

Work Requested:

We were asked to test the sample as received to the following standard:

Modified Martindale Pilling - BS EN ISO 12945-2:2020, Category 1

Notes: This report relates only to the sample submitted and as described in this report.
This report shall not be reproduced except in full without the approval of the laboratory.



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Client: **Kvadrat A/S**

Determination of Surface Pilling, Fuzzing or Matting Modified Martindale Method BS EN ISO 12945-2:2020, Category 1

Determination of Fabric Propensity to Surface Pilling, Fuzzing or Matting – Modified Martindale Method

Date of test: 17/10/2023

Three specimens from the sample were tested on a modified Martindale Abrasion Machine using wool abradant fabric and a loading weight of $415 \pm 2g$, as stated in Annex A, Table A.1, following the Category 1 procedure for upholstery fabrics described in BS EN ISO 12945-2:2020.

Pre-treatment: none

Deviations/ unusual features: none

The tested specimens were visually assessed by two observers and rated according to BS EN ISO 12945-4:2020.

Conditioning

Unless otherwise specified the sample 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 $20 \pm 2^\circ C$.

Results

No. of pilling rubs	Pilling Results				Fuzzing Results				Matting Results			
	1	2	3	Mean	1	2	3	Mean	1	2	3	Mean
125	5	5	5	5	4-5	4-5	4-5	4-5	5	5	5	5
500	5	5	5	5	4-5	4-5	4-5	4-5	5	5	5	5
1000	4-5	4-5	4-5	4-5	4-5	4-5	4-5	4-5	5	5	5	5
2000	4-5	4-5	4-5	4-5	4-5	4-5	4-5	4-5	5	5	5	5
5000	4-5	4-5	4-5	4-5	4-5	4-5	4-5	4-5	5	5	5	5
7000	4	4	4	4	4-5	4-5	4-5	4-5	5	5	5	5



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Assessment

The propensity of the fabric to exhibit pilling fuzzing or matting was assessed as detailed in BS EN ISO 12945-4: 2020 using the descriptive tables as follows.

	Pilling	Fuzzing	Matting
Grade 5	No change	No change	No change
Grade 4	Partially formed pills	Slight surface fuzzing	Slight surface matting
Grade 3	Moderate pilling – pills of varying size and density partially covering the specimen surface	Moderate surface fuzzing	Moderate surface matting
Grade 2	Distinct pilling – pills of varying size and density covering a large proportion of the specimen surface	Distinct surface fuzzing	Distinct surface matting
Grade 1	Severe pilling – pills of varying size and density covering the whole of the specimen surface	Dense surface fuzzing	Dense surface matting

Reported by:.....*K Marshall*..... K Marshall, Section Leader

Countersigned by:.....*J Brewster*..... J Brewster, Section Leader
 Enquiries concerning this report should be addressed to Customer Services.