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Date: 8 November 2023

Our Ref: 29/03315A/10/23

Your Ref: ---

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**Client:**

**Kvadrat A/S**

Lundbergsvej 10  
8400 Ebeltoft  
Denmark

**Job Title:**

Modified Martindale Pilling Test on Fabric

**Clients Order Ref:**

0781871

**Date of Receipt:**

30 October 2023

**Date Test Started:**

02 November 2023

**Description of Sample:**

One sample of upholstery fabric, which was referenced by the Client as:  
Keiga 0112, 38% new wool, 37% viscose, 16% linen, 9% nylon.

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

Date of test: 02/11/2023

Three specimens from each 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.

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

Expanded uncertainty of measurement where  $k=2$  (approximately 95% confidence level) =  $\pm 0.5$  grading units

### Note

BS EN ISO 12945-2:2020 is accredited under our flexible scope policy



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Where required to make a judgement to any pass/fail criteria an estimation of uncertainty of measurement has been taken into account. Under our Policy we have used a non-binary decision rule.

See our decision rules Policy (<https://www.bttg.co.uk/about-us/decision-rules-policy/>) for further information.

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.