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Test report 06/2/26

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19/01/2026

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Customer: Ms. Meike Ludwig
Assignment from: 11/12/2025
Received: 12/12/2025

Assignment:

No.	Test	Standard Test conditions
1.	Abrasion resistance of fabrics by Martindale method – Part 2: Determination of specimen breakdown	DIN EN ISO 12947-2:2017-03 (procedure) [accredited test method] DIN EN 14465:2006-09 (evaluation) Abradant: abradant fabric according to DIN EN ISO 12947-1 (wool) Nominal pressure: 12 kPa
2.	Fabric propensity to surface pilling, fuzzing or matting	DIN EN ISO 12945-2:2021-04 (modified Martindale method) [accredited test method] DIN EN ISO 12945-4:2021-04 (Assessment of pilling, fuzzing and matting by visual analysis) [accredited test method] DIN EN 14465:2006-09 (evaluation) Abradant: abradant fabric according to DIN EN ISO 12947-1 (wool) Loading weight: 415 g Number of test specimens: 3 Number of evaluators: 2 (evaluation according to Empa W2)

Sample:

1 upholstery fabric

Coding for test	Identification by customer
Sample 1	Article 11064

Durch die DAkKS
Deutsche Akkreditierungsstelle GmbH
akkreditiertes Prüflaboratorium

In der Anlage zur Akkreditierungsurkunde sind alle akkreditierten Prüfverfahren aufgeführt. Auf Wunsch wird die Urkunde zugestellt.



Sampling: The samples were taken by the customer.

Realisation of the test: The measurement samples were taken and tested in compliance with the above-mentioned regulations.

Testing period: 12/12/2025 - 14/01/2026

Test results:

1. Abrasion resistance

Sample 1

at 3,000 rubs	very strong pilling change in colour: grade 4-5
at 40,000 rubs	extremely pilling, very long pills 1 thread is destroyed at 2 measurement samples
at 45,000 rubs	extremely pilling, very long pills 3 or more than 3 threads are destroyed at 4 measurement samples

The grade 5 represents the best grade and the grade 1 the worst grade when evaluating the change in colour.

The evaluated abrasion interval is 40,000 rubs..

For the classification according to DIN EN 14465, the number of destroyed threads is evaluated. 3 or more threads must be destroyed.

The quoted result shall be defined as the lowest individual test result of all test specimen tested.

The fabric can be classified in **category A** according to DIN EN 14465 with regard to abrasion resistance.

Enclosed you will find test samples of each of the specified number of rubs.

2. Pilling**Sample 1**

Number of cycles	Pilling			
	Result 1 [Grade]	Result 2 [Grade]	Result 3 [Grade]	Average [Grade]
125	3	3-4	3-4	3-4
500	2-3	2-3	2-3	2-3
1000	2	2	2	2
2000	2	2	2	2
5000	1-2	1-2	1-2	1-2
7000	1	1	1	1

Number of cycles	Fuzzing			
	Result 1 [Grade]	Result 2 [Grade]	Result 3 [Grade]	Average [Grade]
125	4	4	4	4
500	4	4	4	4
1000	4	4	4	4
2000	4	4	4	4
5000	4	4	4	4
7000	4	4	4	4

Both values averaged result in a grade of 3.

The grade 5 is the best grade and the grade 1 is the worst grade.

The fabric can be classified in **category D** according to DIN EN 14465 with regard to pilling.

In the enclosure you get one stressed sample of 2000 cycles and two stressed samples of 7000 cycles for inspection.

The testing results are exclusively related to the sample under conditions as received.

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S. Haase
Head of the Testing Centre

Enclosure: stressed test samples abrasion and pilling