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**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB/T 4802.2-2008

**Textiles -- Determination of fabric propensity to surface fuzzing
and to pilling -- Part 2: Modified Martindale method
(English Translation)**

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Table of Contents

Foreword...	3
1 Scope...	5
2 Normative references...	5
3 Terms and definitions...	5
4 Principle...	6
5 Apparatus...	6
6 Auxiliary materials...	11
7 Conditioning and testing atmosphere...	12
8 Preparation of test specimens...	12
9 Procedure...	12
10 Assessment of fuzzing and/or pilling...	14
11 Results...	15
12 Test report...	15
Annex A...	16

Foreword

GB/T 4802 " Textiles - Determination of fabric propensity to surface fuzzing and to pilling" is divided into 4 parts.

- Part 1. Circular locus method;
- Part 2. Modified Martindale method;
- Part 3. Pilling box method;
- Part 4. Random rolling method.

This Part is part 2 of GB/T 4802.

This Part is modified in relation to ISO 12945-2:2000 Textiles - Determination of fabric propensity to surface fuzzing and to pilling - Part 2. Modified Martindale method (English edition).

Differences from ISO 19.945-2:2000 are as follows.

- Relative provisions on grade and comparison are added in clause 10.

- Article "j) after pretreatment, compare the sample with the samples that are not treated; the assess grading of fuzzing, pilling or pills;" is added in clause 12. The serial numbers after that are increased sequentially.

This Part replaces GB/T 4802.2-1997 "Textiles - Determination of fabric propensity to surface fuzzing and to pilling - Part 2. Modified Martindale method "Differences from GB/T 4802.2 1997.

1 Standard name is modified as " Textiles - Determination of fabric propensity to

surface fuzzing and to pilling - Part 2. Modified Martindale method".

4 Description of the modified Martindale abrasion testing machine is added; and

diagrams of devices such as pilling table, clamping ring, specimen holder body, additional loading weight and auxiliary device are added. Sample size in the sample holder is adjusted correspondingly; the diameter is changed from 40mm to 50140+ mm.

6 The pad in specimen holder is change from polyurethane foam to weaving felt

fabric; The corresponding clauses that whether use pad according to sample weight are deleted;

7 Abradant is changed from single test fabric to 2 abradants - the fabric under test

AND the wool standard abradant; and wool standard abradant shall be adopted for decorative fabric.

9 As for loading, single mass loading is changed to 2 kinds of mass loadings that

are chosen according to test fabric application.

10 Provision of conducting grade-assessment after 1000 times of abrasion is

deleted; test procedure of adopting stages to conduct the abrasion and grade-assessment is specified;

11 State description of fuzzing and pilling of specimens is added;

grade-assessment mode is changed FROM comparing samples for grade-assessment INTO according to visual description for grade-assessment;

12 Annex A "Pilling experimentation classification" is added.

Annex A of this Part is the normative.

This Part was proposed by China Textile General Association.

This Part shall be under the jurisdiction of Basic Standard Branch (SAC/TC 209/SC 1) of National Textile Standardization Technical Committee.

Drafting organizations of this Part. Zhong Fang Biao (Beijing) Inspection Certification Center Co., Ltd. and Ningbo Textile Instrument Plant.

Chief drafting staffs of this Part. Zhou Shixiang, Hu Junwei.

The previous editions replaced by this Part are as follows.

- GB 4802.2-1984, GB/T 4802.2-1997.

Textiles - Determination of fabric propensity to surface fuzzing and to pilling -

Part 2. Modified Martindale method

1 Scope

This Part of GB/T 4802 specifies a method for determination of the resistance to pilling and surface change of textile fabrics using a modified Martindale method.

2 Normative references

The following normative documents contain the provisions which, through reference in

this text, constitute the provisions of this Part of GB/T 4802. For dated references, the subsequent amendments or revisions of these publications do not apply. However, parties who enter into an agreement based on this Part of GB/T 4802 are encouraged to investigate the possibility of applying the most recent editions of the normative documents indicated below. For undated references, the latest edition of the normative document referred to applies.

GB/T 6529 Textiles - Standard atmospheres for conditioning and testing (GB/T 6529-2008, ISO 139.2005, MOD)

GB/T 21196.1 Textiles - Determination of the abrasion resistance of fabrics by the Martindale method - Part 1. Martindale abrasion testing apparatus (ISO 12947-1.1998, MOD)

3 Terms and definitions

For the purposes of this Part of GB/T 4802, the following terms and definitions apply.

3.1 fuzzing

Roughing up of the surface fibers and/or teasing out of the fibers from the fabric, producing a visible surface change.

NOTE: This change can occur during washing, dry cleaning and/or wearing.

3.2 pills

Entangling of fibers into balls (pills) which stand proud of the fabric and are of such density that light will not penetrate and will cast a shadow.

NOTE: This change can occur during washing, dry cleaning and/or wearing.

3.3 pilling

Generation of pills over the surface of the fabric.

3.4 pilling rub

Number of revolutions of the two outer drives of the modified Martindale abrasion machine.