### INTERNATIONAL STANDARD

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# Textiles — Determination of fabric propensity to surface pilling, fuzzing or matting —

### Part 4:

# Assessment of pilling, fuzzing and matting by visual analysis

Textiles — Détermination de la propension au boulochage, à l'ébouriffage ou au moutonnement des étoffes en surface —



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### **Foreword**

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The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular, the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see <a href="www.iso.org/directives">www.iso.org/directives</a>).

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This document was prepared by Technical Committee ISO/TC 38, *Textiles*, Subcommittee SC 24, *Conditioning atmospheres and physical tests for textile fabrics*, in collaboration with the European Committee for Standardization (CEN) Technical Committee CEN/TC 248, *Textiles and textile products*, in accordance with the Agreement on technical cooperation between ISO and CEN (Vienna Agreement).

A list of all parts in the ISO 12945 series can be found on the ISO website.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at <a href="https://www.iso.org/members.html">www.iso.org/members.html</a>.

## Textiles — Determination of fabric propensity to surface pilling, fuzzing or matting —

### Part 4:

### Assessment of pilling, fuzzing and matting by visual analysis

### 1 Scope

This document specifies a method for the visual assessment of pilling, fuzzing, and matting respectively of textile fabrics. This method is applicable to most of woven and knitted fabrics, including napped fabrics (fleeces, inlay fabrics).

### 2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 3668, Paints and varnishes — Visual comparison of colour of paints

ISO 12945-1, Textiles — Determination of fabric propensity to surface pilling, fuzzing or matting — Part 1: Pilling box method

ISO 12945-2, Textiles — Determination of fabric propensity to surface pilling, fuzzing or matting — Part 2: Modified Martindale method

ISO 12945-3, Textiles — Determination of fabric propensity to surface pilling, fuzzing or matting — Part 3: Random tumble pilling method

### 3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- ISO Online browsing platform: available at <a href="https://www.iso.org/obp">https://www.iso.org/obp</a>
- IEC Electropedia: available at <a href="http://www.electropedia.org/">http://www.electropedia.org/</a>

### 3.1

### pill

entangling of fibres 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 1 to entry: This change can occur during washing, dry cleaning, and/or wearing.

### 3.2

#### pilling

generation of *pills* (3.1) over the surface of the fabric