

STN	Textílie a textilné výrobky Mikroplasty z textilných zdrojov Časť 1: Stanovenie straty vlákien z tkanín počas prania (ISO 4484-1: 2023)	STN EN ISO 4484-1 80 8943
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Textiles and textile products - Microplastics from textile sources - Part 1: Determination of material loss from fabrics during washing (ISO 4484-1:2023)

Táto norma obsahuje anglickú verziu európskej normy.
This standard includes the English version of the European Standard.

Táto norma bola oznámená vo Vestníku ÚNMS SR č. 05/23

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Textiles and textile products - Microplastics from textile sources - Part 1: Determination of material loss from fabrics during washing (ISO 4484-1:2023)

Textiles et produits textiles - Microplastiques d'origines textiles - Partie 1: Détermination des pertes de matière des étoffes pendant le lavage (ISO 4484-1:2023)

Textilien und textile Erzeugnisse - Mikroplastik aus textilen Quellen - Teil 1: Bestimmung des Materialverlusts von textilen Flächengebilden beim Waschen (ISO 4484-1:2023)

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EN ISO 4484-1:2023 (E)

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European foreword

This document (EN ISO 4484-1:2023) has been prepared by Technical Committee ISO/TC 38 "Textiles" in collaboration with Technical Committee CEN/TC 248 "Textiles and textile products" the secretariat of which is held by BSI.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by August 2023, and conflicting national standards shall be withdrawn at the latest by August 2023.

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INTERNATIONAL STANDARD

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Textiles and textile products — Microplastics from textile sources — Part 1: Determination of material loss from fabrics during washing

*Textiles et produits textiles — Microplastiques d'origines textiles —
Partie 1: Détermination des pertes de matière des étoffes pendant le
lavage*



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ISO 4484-1:2023(E)

Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

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 www.iso.org/directives).

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This document was prepared by Technical Committee ISO/TC 38, *Textiles*, in collaboration with the European Committee for Standardization (CEN) Technical Committee CEN/TC248, *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 4484 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 www.iso.org/members.html.

Introduction

There is significant evidence that during laundering of textiles, release of fragments can occur. The purpose of this document is to provide a method of assessment, to be used in laboratories, of the degree to which different fabrics shed fibres and fibre fragments of all types. The results obtained by using this document should enable manufacturers of textile articles to make an informed choice about the type of fabric to use to reduce/minimize shedding as well as to test different methods of manufacture that minimize material loss during laundering.

Textiles and textile products — Microplastics from textile sources —

Part 1: Determination of material loss from fabrics during washing

1 Scope

This document describes a method for systematically collecting material loss from fabrics under laundering test conditions to achieve comparable and accurate results. There is no direct correlation to material loss during domestic and commercial laundering. The method is designed to assess material loss of all types.

NOTE In this document, any collected debris is assumed to be fibre fragments. For the identification of the nature/composition of this debris, the method described in ISO 4484-2 can be used.

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 3696:1987, *Water for analytical laboratory use — Specification and test methods*

ISO 4915, *Textiles — Stitch types — Classification and terminology*

ISO 4916, *Textiles — Seam types — Classification and terminology*

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