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

GB/T 47769.3-2026

**Textiles - Microplastics from textile sources - Part 3:
Measurement of collected material mass released from textile
end products by domestic washing method**

纺织品 来源于纺织品的微塑料 第3部分: 制成品经家庭洗涤后收集物质量的测定
(English Translation)

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Table of Contents

Preface
Introduction
1 Scope
2 Normative References
3 Terms and Definitions
4 Principle
5 Reagent
6 Instruments and Materials
7 Test Conditions
9 Experimental Procedure
10 Calculations
11 Repeatability and Reproducibility
12 Test Report
Appendix A (Normative) Requirements for the washing machine used in this test
Appendix B (Informative) Filter Cloth Specifications and Filter Bag Structure
Appendix C (Informative) Filter Bag Pore Sizes
Appendix D (Informative) Number of Specimens.
Appendix E (Informative) Detergent
Appendix F (Informative) Example 15 of Test Conditions and Results for Multiple Washing Cycles
Appendix G (Informative) Number of empty wash cycles after washing test.
Appendix H (Informative) Interlaboratory Tests
References

Foreword

This document complies with the provisions of GB/T 1.1-2020 "Standardization Work Guidelines Part 1: Structure and Drafting Rules of Standardization Documents".

Drafting.

This document is Part 3 of GB/T 47769 "Microplastics Derived from Textiles". GB/T 47769 has been published.

The following section.

---Part 1: Determination of the mass of collected fabrics after washing;

This document is modified to adopt ISO 4484-3:2023 "Textiles and textile products - Microplastics derived from textiles - Part 3: Fabrication".

Determination of the mass of the sample collected after household washing.

Compared with ISO 4484-3:2023, this document has undergone the following structural adjustments.

---Chapter 5 corresponds to Chapter 6 of ISO 4484-3:2023;

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---Modify the "Placement of specimen" section in ISO 4484-3:2023 from 9.4 to 9.3;

---Appendix A corresponds to Appendix B of ISO 4484-3:2023;

---Appendix B corresponds to Appendix A of ISO 4484-3:2023;

---Appendix C corresponds to Annex I of ISO 4484-3:2023;

---Appendix D corresponds to Appendix G of ISO 4484-3:2023;

---Appendix E corresponds to Appendix D of ISO 4484-3:2023;

---Appendix F corresponds to Appendix E of ISO 4484-3:2023;

---Appendix G corresponds to Appendix C of ISO 4484-3:2023;

---Appendix H corresponds to Appendix F of ISO 4484-3:2023;

--- Annex H "Fiber debris recovery rate" of ISO 4484-3:2023 has been deleted.

The technical differences between this document and ISO 4484-3:2023, and the reasons therefor, are as follows.

---Inapplicable conditions in the "Scope" chapter have been removed to facilitate the application of the standard;

---The normative reference ISO 3696 has been replaced with GB/T 6682 to facilitate the implementation of the standard (see Chapter 5);

---The normative reference ISO 6330 has been replaced with GB/T 8629 to facilitate the implementation of the standard (see 6.1);

---The description of the number of samples in "Experimental Preparation" has been changed from the text to a note, improving the consistency of experimental procedures (see Chapter 8);

---The normative reference ISO 3758 has been replaced with GB/T 8685 to facilitate the implementation of the standard (see 9.1);

---The description regarding care labels in relevant countries has been revised to "If the finished product does not have a care label, then washing should be performed in accordance with the agreement of the relevant parties." the program was adapted to my country's technological conditions (see 9.1);

---The descriptions regarding detergents, number of washes, and empty wash cycles have been changed from the text to footnotes to adapt to my country's technical conditions (see 9.3);

---The flowchart A.1 has been removed from Appendix A, "Requirements for the washing machine used in this test," to improve the consistency of the test operation.

The following editorial changes have been made to this document.

---The standard title has been changed to "Microplastics from textiles - Part 3: Substances collected after household washing of finished products".

"Determination of Quantity";

---The URLs for the ISO and IEC terminology databases have been removed;

---Chapter 8 has added a note regarding "if a single product has a large volume";

---The reference filter cloth parameters in Appendix B, Filter Bag Specifications and Filter Bag Structure, have been adjusted;

Appendix H replaces the informative reference ISO 5725-2 with GB/T 6379.2;

---The symbol format in Table H.7 of Appendix H, Interlaboratory Tests, has been adjusted to be consistent with GB/T 6379.2.

Please note that some content in this document may involve patents. The issuing organization of this document assumes no responsibility for identifying patents.

This document was proposed by the China National Textile and Apparel Council.

This document is under the jurisdiction of the National Technical Committee on Standardization of Textiles (SAC/TC209).

Introduction

GB/T 47769, "Microplastics Derived from Textiles," is a standard for testing textiles and textile products after washing, collecting the microplastics from the washed material.

The proposed standard for methods to address material loss shall consist of the following parts.

---Part 1: Determination of the mass of collected fabrics after washing. The aim is to provide a method for determining the mass of collected fabrics after washing.

Material quality testing methods derived from microplastics in textiles.

---Part 2: Qualitative and Quantitative Evaluation of Microplastics. The aim is to provide a qualitative and quantitative evaluation of microplastics derived from textiles.

method.

---Part 3: Determination of the mass of finished products collected after household washing. The aim is to provide a method for determining the mass of finished products collected after household washing.

The quality of the collected materials after washing is tested using a method derived from microplastics in textiles.

Microplastics from textiles, Part 3.

Determination of the mass of the finished product after household washing

1 Scope

This document describes a test for determining the amount of collected material discharged after washing finished products in a washing machine as specified in GB/T 8629.

method.

Note: This method should be performed according to the washing conditions indicated on the GB/T 8685 maintenance label.

This document applies to all manufactured goods made from fibers (such as natural and synthetic fibers, including blends), including clothing, apparel, and other garments.

Decorations, and home textiles.

The contents of the following documents, through normative references within the text, constitute essential provisions of this document. Dated citations are not included.

For references to documents, only the version corresponding to that date applies to this document; for undated references, the latest version (including all amendments) applies.

This document.

GB/T 6529 Standard atmosphere for conditioning and testing of textiles (GB/T 6529-2008, ISO 139:2005, MOD) GB/T 6682 Specifications and test methods for water used in analytical laboratories (GB/T 6682-2008, ISO 3969:1987, MOD) GB/T 8629 Textiles - Testing - Household washing and drying procedures (GB/T 8629-2017, ISO 6330:2012, MOD) GB/T 8685 Standard Symbols for Textile Care Labelling (GB/T 8685-2008, ISO 3758:2005, MOD)