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

GB/T 17640-2023

Replacing GB/T 17640-2008

Geosynthetics - Synthetic filament woven geotextiles

土工合成材料 长丝机织土工布

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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 replaces GB/T 17640-2008 "Geosynthetic filament woven geotextiles" and is consistent with GB/T 17640-2008. In addition to structural adjustments and editorial changes, the main technical changes are as follows:

- a) Added a "Terms and Definitions" chapter (see Chapter 3);
- b) Pipe bag cloth and its notes are added to the product code (see 4.3);
- c) Change "nominal breaking strength" to "nominal strength" (see Table 1, Table 1 of the 2008 version);
- d) Change "longitudinal and latitudinal breaking strength" to "longitudinal and latitudinal tensile strength" (see Table 1, Table 1 of the 2008 version);
- e) Change the "elongation rate corresponding to the standard strength in the longitudinal and latitudinal directions" to "elongation rate under the maximum load in the longitudinal and latitudinal directions" (see Table 1, 2008 version of the table 1);
- f) The assessment index of "die bag filling thickness deviation" has been deleted (see Table 1 of the 2008 version);
- g) Change "mold bag length and width deviation" to "length and width deviation rate", and add footnote a (see Table 1, Table 1 of the 2008 version);
- h) Change "sewing strength" to "joint/seam strength" and add footnote a (see Table 1, Table 1 of the 2008 version);
- i) Added "acid and alkali resistance" and "ultraviolet resistance" assessment indicators (see Table 1);
- j) Delete the relevant requirements for "negotiation between supply and demand parties" (see

4.1.3 of the.2008 version);

k) Corresponding test methods have been adjusted according to changes in technical requirements for intrinsic quality and appearance quality (see Chapter 6, Section 5 of the.2008 edition chapter);

1 Scope

GB/T 17640-2023 is the Chinese national standard on geosynthetics - synthetic filament woven geotextiles, in the field of textile and leather technology. The /T suffix marks it as a recommended standard: it is not compulsory by itself, but it becomes binding as soon as a contract, a tender or a customer specification calls it up - which in practice is how most foreign buyers meet it. It was issued on 6 August 2023 by the State Administration for Market Regulation; Standardization Administration of China, and has been in force since 1 March 2024. Classification: ICS 59.080.70, CCS W59. This page is published from the official record of the standard held by the Chinese standards administration: the identification, the dates, the classification and the issuing body are taken from there. The clause text, the tables and the numeric limits are in the document itself, which is delivered complete in English translation.

2 Normative reference documents

The contents of the following documents constitute essential provisions of this document through normative references in the text. Among them, the dated quotations For undated referenced documents, only the version corresponding to that date applies to this document; for undated referenced documents, the latest version (including all amendments) applies to this document.

GB/T 3923.1 Tensile properties of textile fabrics Part

GB/T 4666 Determination of length and width of textile fabrics

GB/T 13759 Geosynthetics terms and definitions

GB/T 13760 Geosynthetic materials sampling and sample preparation

GB/T 13762 Method for determination of unit area mass of geosynthetic materials, geotextiles and geotextile related products

GB/T 13763 Determination of tearing strength of geosynthetic materials by trapezoidal method

GB/T 14799 Dry screening method for determination of effective pore size of geotextiles and related products

GB/T 14800 Static bursting test of geosynthetics (CBR method)

GB/T 15788 Wide strip tensile test method for geosynthetic materials

GB/T 15789 Determination of vertical penetration characteristics of geotextiles and related products under no load

GB/T 16422.2 Plastic laboratory light source exposure test methods Part

3 Fluorescent UV lamp

GB/T 16989 Tensile test method for wide strips of geosynthetic joints/joints

GB/T 17630 Drop cone method for dynamic perforation test of geotextiles and related products

GB/T 17631 Test methods for antioxidant properties of geotextiles and related products

GB/T 17632 Test methods for acid and alkali resistance of geotextiles and related products

GB/T 17634 Wet screening method for determination of effective pore size of geotextiles and related products

GB/T 17635.1 Determination of friction characteristics of geotextiles and related products - Part