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

GB/T 16603-2025

Replacing GB/T 16603-2017

Polyamide drawn yarns

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Foreword

This document is in accordance with the provisions of GB/T 1.1-2020 "Guidelines for standardization work Part 1: Structure and drafting rules for standardization documents" Drafting.

This document replaces GB/T 16603-2017 "Nylon Drawn Yarn". Compared with GB/T 16603-2017, except for structural adjustments and editorial changes, In addition to the modifications, the main technical changes are as follows.

- Changed the scope (see Chapter 1, Chapter 1 of the 2017 edition);
- Changed the terms and definitions (see Chapter 3, Chapter 3 of the 2017 edition);
- Change Table 1 to the performance items and indicators of nylon 6 drawn yarn, and change the linear density deviation rate and linear density variation coefficient Linear density (CVb), coefficient of variation of breaking strength (CVb), coefficient of variation of breaking elongation (CVb), and linear density of strip unevenness (CV) The selection range of the classification limit, the breaking strength index when the single-filament linear density (dpf) is >1.3dtex, and the center value of the breaking elongation (see Table 1, Table 1 of the 2017 edition);
- Added Table 2 performance items and indicators of nylon 66 drawn yarn (see Table 2);
- Added technical requirements for oil content, network degree and titanium dioxide content (see 5.4, 5.5);
- The appearance inspection test method has been changed (see 6.6.1, 6.7.1 and 6.7.2 of the 2017 edition);
- Added online intelligent detection method (see 6.6.2);
- Added oil content test items (see 7.2.1).

Please note that some of the contents of this document may involve patents. The issuing organization of this document does not assume the responsibility for identifying patents.

This document is proposed and coordinated by the National Technical Committee on Standardization of Chemical Fibers (SAC/TC586).

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The previous versions of this document and the documents it replaces are as follows.

- First published as GB/T 16603-1996 in 1996, first revised in 2008, second revised in 2017;
- This is the third revision. Nylon drawn yarn

1 Scope

This document specifies the technical requirements for nylon drawn yarn, describes the corresponding test methods, and specifies the inspection rules, marking, packaging, transportation, It also covers aspects such as storage, and provides product classification and identification.

This document is applicable to nominal linear density 5.0dtex~500.0dtex (ply yarn refers to the nominal linear density before plying), single yarn linear density 0.2dtex~15.0dtex, round cross section, glossy, semi-dull, full-dull, untwisted and unpressed, natural color nylon 6 and nylon for civilian use Nylon 66 drawn yarn. Other specifications and types of nylon drawn yarns can be used for reference.

2 Normative references

GB/T 2828.1-2012

GB/T 4146

GB/T 6502

GB/T 6503

GB/T 6504

GB/T 6505

GB/T 14343

GB/T 14344

GB/T 14346

GB/T 37632

GB/T 38138

3 Terms and definitions

The terms and definitions defined in GB/T 4146 (all parts) and GB/T 38138 apply to this document.

4.1 Product Categories

According to the different amount of titanium dioxide added during production, it can be divided into glossy, semi-matt and full-matt products.