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PEOPLE'S REPUBLIC OF CHINA**

GB/T 21032-2026

Replacing GB/T 21032-2007

Polyamide monofilament

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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 21032-2007 "Polyamide Monofilament". Compared with GB/T 21032-2007, the main differences are in structural adjustments and editorial changes. Aside from the modifications, the main technical changes are as follows:

- a) A classification of the physical and mechanical properties of fishing lines has been added (see 4.1.2);
- b) The tagging has been changed (see 4.2, 2007 version 4.2);
- c) The physical and mechanical properties of the fishing line have been changed (see 5.2.2,

5.1.2 in the.2007 version);

d) The requirements and test methods for low molecular weight substances have been removed (see

6.8 in the.2007 edition);

e) The moisture regain rate has been changed (see 5.3, 7.4.4 in the.2007 edition);

f) The conditioning and testing atmosphere has been changed (see 6.2.1.1, 6.3 in the.2007 edition);

g) The pretension has been changed (see 6.2.1.2, 6.4.2 in the.2007 edition);

1 Scope

GB/T 21032-2026 is the Chinese national standard covering nylon monofilament for fishing gear - the diameter and its uniformity, the breaking strength and knot strength, the elongation and the resistance to ultraviolet and abrasion. It replaces GB/T 21032-2007 and has been in force since 1 September 2026. It was issued on 27 February 2026 and has been in force since 1 September 2026, replacing GB/T 21032-2007. The document is under the responsibility of the Ministry of Agriculture and Rural Affairs. This page is published from the official record of the 2026 edition; the clause text of a standard this recent is not yet in circulation, and the figures, limits and tables it contains are those of the document itself, delivered in full with the English translation.

This document defines the terminology and definitions for polyamide monofilaments, provides classification and labeling, specifies the requirements for polyamide monofilaments, and describes the... The regulations stipulate the corresponding test methods and inspection rules, and also specify the relevant requirements for marking, packaging, transportation and storage. This document applies to the quality management, trade, and technical exchange of the following polyamide monofilaments produced from polyamide resin.

---Polyamide monofilaments for fishing net weaving with a nominal diameter ranging from 0.10 mm to

---Polyamide monofilament for fishing with a line size range of 0.1 to.200 (nominal diameter range of 0.053mm to 2.34mm).

4.1 Classification

4.1.1 Polyamide monofilaments can be classified according to their applications as follows:

---Polyamide monofilament for fishing net weaving (hereinafter referred to as fishing net yarn);

---Polyamide monofilament for fishing (hereinafter referred to as fishing line).

4.1.2 According to their physical and mechanical properties, fishing lines can be divided into.

7.8 grade (the breaking strength of a

1.0 fishing line is 17.8N);

---Fd122.2 grade (the breaking strength of a

1.0 fishing line is 22.2N);

---Fd126.7 grade (the breaking strength of a fishing line with a gauge of

Note. We can produce fishing lines with physical and mechanical properties no lower than Fd117.8 according to user, contract and other requirements.

4.2.1 Fishing net wire

4.2.1.1 Complete Markup Complete markings for fishing net wire are indicated as follows:

4.2.1.2 Simplified labeling Fishing net wire is marked in the following way.

4.2.2.1 Complete Markup

4.2.2.2 Simplified labeling Fishing line markings are indicated as follows:

5 Requirements

5.1 Appearance Quality The appearance quality of polyamide monofilaments should meet the requirements of Table 1.

5.2 Physical and mechanical properties

5.2.1 Fishing net wire The physical and mechanical properties of fishing net wire should meet the requirements of Table

2. For fishing net wire specifications not listed in Table 2, the physical and mechanical properties should be determined according to formula (1). The calculations are performed using formulas (2) and (3), and the results are retained to three significant figures. The allowable deviation of linear density is based on the specifications of the adjacent smaller diameter.

5.2.2 Fishing line

5.2.2.1 Diameter and Deviation The diameter and tolerance of fishing line should conform to the specifications in Table

3. For nominal diameters of fishing lines not listed in Table 3, the calculation should be performed according to formula (4). Calculate, and retain three significant figures for the result.

5.2.2.2 Linear Density The line density of the fishing line should not be less than the calculated value of formula (1), and the calculation result should be retained to 3 significant figures.

5.2.2.3 Fracture Strength 5.2.2.3.1 The breaking strength (FdF1) of a

1.0 fishing line shall not be less than

17.8 N. 5.2.2.3.2 The breaking strength of the fishing line should not be less than the calculated value of formula (5), and the calculation result should be retained to 3 significant figures. 5.2.2.3.3 The coefficient of variation of the breaking strength of fishing line shall conform to the provisions of Table 5.

5.2.2.4 Strength of a single-strand knot The strength of a single knot in a fishing line should not be less than the calculated value of formula (6), and the calculation result should be retained to 3 significant figures.

5.2.2.5 Elongation at break The breaking elongation of fishing line should meet the requirements of Table 7.

5.3 Moisture regain At the time of delivery, the standard moisture regain of the polyamide monofilament is $4.5\% \pm 0.5\%$.

6 Test Methods

6.1 Appearance Quality Visual inspection is performed on a black tabletop, with an illuminance of no less than 1000 lx on the object being tested.

6.2.1 Test Conditions

6.2.1.1 Conditioning and Testing Atmosphere Perform in accordance with the provisions of GB/T 6529.

6.2.1.2 Pre-tension Perform in accordance with the provisions of GB/T 6965.

6.2.2 Diameter Measurement Use an outside micrometer with a minimum reading of no more than $1 \mu\text{m}$ for measurement. The distance between any three points should be greater than 1 m. Take measurements at any three points. Its arithmetic mean.