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

GB/T 8050-2017

Replacing GB/T 8050-2017

**Fibre ropes - Polypropylene split film, monofilament and
multifilament (PP2) and polypropylene high-tenacity
multifilament (PP3) - 3-, 4-, 8- and 12- strand ropes
(English Translation)**

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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 supersedes GB/T 8050-2017 "Fiber Ropes - Polypropylene Split Film, Monofilament, Multifilament (PP2) and High-Strength Multifilament (PP3)" 3, 4, etc.

Compared with GB/T 8050-2017, the main technical changes in "8-12 strand rope" are as follows, apart from structural adjustments and editorial modifications.

- The scope has been changed (see Chapter 1, Chapter 1 of the.2017 edition);
- The term and definition of "minimum breaking strength" have been added (see 3.1);
- The identifier has been changed (see Chapter 4, Chapter 4 in the.2017 edition);
- The linear density deviation rate has been changed (see Chapter 6, Chapter 6 in the.2017 edition).

This document is equivalent to ISO 1346.2021 "Fiber ropes - Polypropylene split film, monofilament, multifilament (PP2) and high-strength multifilament (PP3)".

3-strand, 4-strand, 8-strand, and 12-strand ropes.

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 Home Textiles (SAC/TC302).

1 Scope

This document specifies the general techniques for making 3-strand and 4-strand twisted ropes and 8-strand and 12-strand braided ropes from polypropylene fibers for general purposes.

The requirements were specified, and the identification rules were given.

This document does not cover all variations in strength or product performance. Consult with the rope manufacturer to ensure the intended design meets application requirements.

2 Normative references

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.

Note: GB/T 40273-2021 Fiber Rope Terminology (ISO 1968.2004, MOD)

Note: GB/T 8834-2026 Determination of physical and mechanical properties of fiber ropes (ISO 2307.2019, MOD)

Note: GB/T 21328-2024 General requirements for fiber ropes (ISO 9554.2019, IDT)

3 Terms and Definitions

The terms and definitions defined in ISO 1968 and the following terms and definitions apply to this document.

The URLs for the terminology databases maintained by ISO and IEC for standardization are as follows.

3.1

The minimum strength that a fiber rope should achieve when tested according to recognized procedures/testing methods.

Note: MBS is set by each manufacturer after conducting fracture strength tests using their own internal statistical methods. See Appendix D of GB/T 21328-2024.

The document provides two statistical methods for calculating MBS.

[Source. GB/T 21328-2024, 3.2]

4 Marking

Fiber rope markings should include the following.

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