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**TEXTILE INDUSTRY STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

FZ/T 12009-2020

**Acrylic grey yarn
(English Translation)**

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Foreword

This standard was drafted in accordance with the rules given in GB/T 1.1-2009.

This standard replaces FZ/T 12009-2011 "Acrylic Natural Yarn". Compared with FZ/T 12009-2011, the main technical changes are as follows.

---Deleted the line density provisions in Chapter 3 of the original standard (see 3.1.2 of the 2011 edition);

--- Deleted the assessment item "Blackboard evenness" and added the assessment item "Kilometer nep (200%)" (see Table 1, 2011 edition)

Table 1);

---Adjusted the "linear density variation coefficient", "single yarn breaking strength", "single yarn breaking strength variation coefficient" and "evenness uniformity variation coefficient" "One hundred thousand meters of yarn defects" assessment indicators (see Table 1, Table 1 of the 2011 edition);

---Deleted the sampling regulations and the digital rounding regulations for calculated values (see Table 2, Table 3, and Table 4 in the 2011 edition);

--- Delete the original standard informative appendix B and informative appendix C.

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

This standard is under the jurisdiction of the Cotton Textile Subcommittee of the National Textile Standardization Technical Committee (SAC/TC209/SC10).

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1 Scope

This standard specifies the classification, marking, requirements, test methods, inspection rules, markings, and packaging of acrylic natural yarn products.

This standard applies to ring-spun acrylic natural yarns, but not to special-purpose acrylic natural yarns.

2 Normative references

The following documents are indispensable for the application of this document. For dated reference documents, only the dated version applies to this article. For undated references, the latest version (including all amendments) applies to this document.

GB/T 3292.1 Textile yarn unevenness test method Part 1: Capacitance method GB/T 3916 Determination of breaking strength and breaking elongation of single yarn of textile package yarn (CRE method) GB/T 4743-2009 Determination of the linear density of the skein of textile packages GB/T 8170 Numerical rounding rules and the expression and determination of limit values FZ/T 01050 Classification and inspection method of textile yarn defects capacitive type FZ/T 10007 Cotton and chemical fiber pure and blended natural yarn inspection rules FZ/T 10008 Cotton and chemical fiber pure and blended yarn marking and packaging

3 Product classification and marking

3.1

Acrylic natural yarn products are classified in different linear densities.

3.2

The raw material code of acrylic yarn is A.

3.3

When marking the natural acrylic yarn, the name (or code) of the raw material of the yarn should be indicated before the line density.

Example.

The linear density is 14.8tex acrylic yarn, which can be written as. A14.8tex.

4.1 Project

Technical requirements for acrylic natural yarn include linear density deviation rate, linear density variation coefficient, single yarn breaking strength, single yarn breaking strength variation coefficient, 7 indicators of evenness uniformity variation coefficient, kilometer neps (200%), and 100,000-meter yarn defect.

4.2 Classification requirements

4.2.1

Products of the same specification continuously produced by the same raw material and the same process shall be regarded as one or several inspection batches.

4.2.2

Product quality grades are divided into top-grade, first-class, and second-class products, and products lower than second-class are considered non-standard products.

4.2.3

The quality grade of acrylic natural yarn is evaluated according to the product specifications and the lowest item in the assessment items.

4.3 Technical requirements

The technical requirements for acrylic natural yarns are in accordance with Table 1.