

ICS 59.080.20
CCS W 12

FZ

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

FZ/T 12028-2020

**Polyester colour yarn
(English Translation)**

Issued on: January 1, 1970

Implemented on: October 1, 2020

**Issued by: Ministry of Industry and Information Technology of the
People's Republic of China**

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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 12028-2012 "Polyester Color Spinning Yarn". Compared with FZ/T 12028-2012, the main technical changes are as follows.

---The standard range is adjusted to the polyester dyed yarn produced by ring spinning and air jet vortex spinning;

---Added the technical requirements for air-jet vortex spinning polyester dyed yarn (see 4.3.1.3);

---The technical requirements for ring-spun polyester dyed yarns have increased the kilometer neps assessment items, which have improved the breaking strength of single yarn and the change of single yarn breaking strength.

Different coefficient, 100,000-meter yarn defect assessment requirements (see 4.3.1.1, Table 1 of 5.3.1 in the 2012 edition);

---The technical requirements for ring-spun polyester yarns have deleted the evenness variation coefficient assessment items, and improved the single-thread breaking strength and single-thread the evaluation requirements for the coefficient of variation of the breaking strength have been added to the evaluation requirements for the first-class product of the coefficient of variation of the twist (see 4.3.1.2, 2012 edition

5.3.1 Table 2);

---Added the requirements for color fastness to dry heat and color difference within the same batch (see 4.3.2.1, 4.3.2.2, 5.3.2 in the 2012 edition);

---Appendix A was deleted, and the original appendix B was adjusted to appendix A.

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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Company, Shandong Lianrun Color Spinning Technology Co., Ltd., Peixian New Silk Road Textile Co., Ltd., Hangzhou Xiaoshan Linfen Textile Co., Ltd., Anhui Suzhou Run Da Textile (Group) Co., Ltd., Wujiang Jingyi Special Fiber Co., Ltd., China Cotton Textile Industry Association, Shanghai Textile Industry Technology Supervisor Supervision.

1 Scope

This standard specifies the product classification, marking, requirements, test methods, inspection rules and markings of polyester (cotton staple fiber) colored spun yarns, package.

This standard applies to dyed polyester yarns produced by ring spinning and air jet vortex spinning, and does not apply to special-purpose polyester 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 Pieces. For undated references, the latest version (including all amendments) applies to this document.

GB/T 250 Gray Scale for Textile Color Fastness Test Evaluation GB/T 2543.1 Determination of yarn twist in textiles Part 1: Direct counting method 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 3920 Textile color fastness test color fastness to rubbing GB/T 3921-2008 Textile color fastness test color fastness to soaping GB/T 3922-2013 Textile color fastness test Color fastness to perspiration GB/T 4743-2009 Determination of the linear density of the skein of textile packages GB/T 4841.3 Standard depth color card for dyeing with dyes 2/1, 1/3, 1/6, 1/12, 1/25 GB/T 5718-1997 Textile color fastness test Color fastness to dry heat (except hot pressing) GB/T 8170 Numerical rounding rules and the expression and determination of limit values GB 18401 National Basic Safety Technical Code for Textile Products FZ/T 01050 Classification and inspection method of textile yarn defects capacitive type FZ/T 10008 Cotton and chemical fiber pure and blended yarn marking and packaging FZ/T 10021-2013 Colored Spinning Yarn Inspection Rules

3 Product classification and marking

3.1

Polyester colored spun yarns are classified according to different production processes, different colors and linear densities.

3.2

The production process of ring spinning yarn includes traditional ring spinning, Siro spinning, compact spinning and Siro compact spinning.

3.3

The production process and raw material code of polyester colored spun yarn are expressed in English letters. Siro spinning code is AA, compact spinning code is JM, Siro compact spinning code is AAJM, air jet vortex spinning code is JV, and the production process code of traditional ring spinning yarn is not marked;

The polyester code is T.

3.4

When marking polyester yarns, the color (or code) of the yarn, spinning process (or code), and the name of the raw material should be indicated before the line density.

(Or code name).

Example 1.

Hemp gray 19.7tex air-jet vortex spinning polyester yarn can be written as. hemp gray JVT19.7tex.

Example 2.

Hemp gray 19.7tex traditional ring-spun polyester dyed double-strand yarn can be written as. hemp gray T19.7texx2.