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NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA

ICS 59.060.20

W 52

GB/T 14464-2017

Replacing GB/T 14464-2008

Polyester staple fiber

涤纶短纤维

Issued on: December 29, 2017

Implemented on: July 01, 2018

**Issued by: General Administration of Quality Supervision, Inspection and Quarantine;
Standardization Administration of PRC.**

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Polyester staple fiber

1 Scope

This standard specifies the terms and definitions, classification and marking, technical requirements, test methods, inspection rules and markings, packaging, transportation, and storage requirements of polyester staple fiber.

This standard applies to semi-dull or shiny natural polyester staple fibers with a linear density of 0.8 dtex ~ 6.0 dtex and a circular cross section. Other types of polyester staple fibers may refer to this standard.

2 Normative references

The following documents are essential to the application of this document. For the dated documents, only the versions with the dates indicated are applicable to this document; for the undated documents, only the latest version (including all the amendments) are applicable to this standard.

GB/T 3291.1 Textiles - Terms of textile material properties and test - Part 1: Fiber and yarn

GB/T 3291.3 Textiles - Terms of textile material properties and test - Part 3: General

GB/T 4146 (all parts) Textiles - Man-made fibers

GB/T 6503 Man-made fibers - Test method of moisture regain

GB/T 6504 Testing method for oil content of man-made fibers

GB/T 8170 Rules of rounding off for numerical values & expression and judgement of limiting values

GB/T 14189 Fiber grade polyester chip (PET)

GB/T 14334 Sampling method for man-made staple fibers

GB/T 14335 Testing method for linear density of man-made staple fibers

GB/T 14336 Testing method for length of man-made staple fibers

GB/T 14337 Testing method for tensile properties of man-made staple fibers

GB/T 14338 Testing method for crimping performance of man-made staple fibers

GB/T 14339 Testing method for defect of man-made staple fibers

GB/T 14342 Man-made fiber - Test method for specific resistance of staple fibers

FZ/T 50004 Testing method for shrinkage in hot air of polyester staple fibers

FZ/T 50027 Man-made fibers - Test method for determination of the titanium dioxide content

3 Terms and definitions

The terms and definitions as defined in GB/T 3291.1, GB/T 3291.3, GB/T 4146 (all parts), GB/T 14189 apply to this document.

4 Classification and identification

4.1 Product classification

4.1.1 Cotton type: The linear density is 0.8 dtex ~ <2.2 dtex.

4.1.2 Medium and long type: The linear density is 2.2 dtex ~ <3.3dtex.

4.1.3 Hair type: The linear density is 3.3 dtex ~ 6.0 dtex.

4.2 Product identification

4.2.1 Product specifications are expressed in terms of nominal fiber density (dtex) and nominal length (mm). For example: 1.33 dtex × 38 mm, where 1.33 dtex represents the nominal linear density and 38 mm represents the nominal length.

4.2.2 The product identification shall contain information such as specifications, categories, product names or batch numbers, which can be effectively distinguished.

5 Technical requirements

5.1 Product grading

Polyester staple fiber products are divided into three grades: superior grade, first-grade, qualified grade.

6 Test method

6.1 Breaking strength, elongation at break, 10% fixed-length elongation strength, variation factor of breaking strength

It shall be implemented in accordance with the provisions of GB/T 14337.

6.2 Linear density deviation rate

It is performed according to the requirements of GB/T 14335. Use the method A in case of arbitration.

6.3 Length deviation rate, ultra-long fiber rate, multiple length fiber content

It is performed according to the requirements of GB/T 14336.

6.4 Defect content

It is performed according to the requirements of GB/T 14339.

6.5 Curling number, curling rate

It is performed according to the requirements of GB/T 14338.

6.6 Dry heat shrinkage at 180 °C

It is performed according to the requirements of FZ/T 50004.

6.7 Specific resistivity

It is performed according to the requirements of GB/T 14342.

6.8 Oil content

It is performed according to the requirements of GB/T 6504.

6.9 Moisture regain

It is performed according to the requirements of GB/T 6503.

6.10 Titanium dioxide content

It is performed according to the requirements of FZ/T 50027.

6.11 Determination of mass differences

6.11.1 Obtain the net mass of the package from the batch of samples according

in the sampling method of packaged pieces in GB/T 14334. It shall not sample the packages which had been accidentally damp, contaminated, scratched or opened during transportation.

7.2.3.2 The sample size for multiple length fiber content and defect content shall be doubled.

7.2.4 Group-batching rules

Perform group-batching according to the original production batch.

7.2.5 Re-inspection evaluation

7.2.5.1 Carry out the grade evaluation according to 7.1.4. If it is higher than or equal to the original grade, it is judged as conforming; if it is lower than the original grade, it is judged as non-conforming.

7.2.5.2 If the deviation rate between the average net mass of the package and the official mass exceeds $\pm 0.5\%$, it shall be determined through negotiation between the supplier and the buyer.

7.2.5.3 If the deviation rate between the nominal net mass of the package of a fixed-weight product and the official mass is more than $\pm 1\%$, or the average actual mass of the batch of the fixed-weight product is less than the nominal net mass, or the deviation rate of the mass of the package of the non-fixed product and the nominal net mass of the same batch of fixed-weight product exceeds $\pm 5\%$, it shall be determined through negotiation between the supplier and the buyer.

8 Marking, packaging, transportation and storage

8.1 Marking

8.1.1 The package shall be marked with product name, specification, grade, batch number, net mass, production date, trademark, product standard number, manufacturer name, address, warning signs for product protection and handling according to the specified classification and naming rules.

8.1.2 The product's printed mark shall be obvious and not faded, to prevent oil and color from penetrating into the bag and polluting the fiber.

8.2 Packaging

8.2.1 The packaging of the product shall be kept intact, and the fiber shall not be exposed. The quality of the packaging shall ensure that the fibers are not damaged.

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