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

FZ/T 52004-2022

Hollow poly(ethylene terephthalate) staple fiber for filling

充填用中空涤纶短纤维

(English Translation)

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Foreword

This document is in accordance with the provisions of GB/T 1.1-2020 "Guidelines for Standardization Work Part 1: Structure and Drafting Rules for Standardization Documents" drafting.

This document replaces FZ/T 52004-2007 "Hollow Polyester Staple Fibers for Filling". Compared with FZ/T 52004-2007, except for editorial in addition to the modification, the main technical changes are as follows.

---Modify the scope of application, limit the scope to three-dimensional hollow polyester staple fiber, and modify the linear density range to 2.50dtex~22.22dtex (See Chapter 1, Chapter 1 of the 2007 edition);

---Modified the normative references (see Chapter 2, Chapter 2 of the 2007 edition);

--- Modified the terms and definitions (see Chapter 3, Chapter 3 of the 2007 edition);

---Deleted the safety and health classification, and divided the classification and labeling into two separate expressions (see Chapter 4, Chapter 4 of the 2007 edition);

---Technical requirements (see Chapter 5, Chapter 5 of the 2007 edition).

- Increase product classification. adjust from one grade of qualified products to three grades of high-quality products, first-class products, and qualified products, and delete non-standard products expression;

- Delete the safety and health classification indicators in Table 1; add the indicators of excellent products, first-class products, and qualified products;

- Modified the performance items and indicators in Table 1.the number of crimps was changed to graded assessment, and corresponding indicators were added; the assessment items "Defects and free matter" was changed to "defects", and the indicators were revised

according to superior products, first-class products, and qualified products; the assessment items were cancelled.

Add the item "ash content"; delete the two assessment items and indicators of fiber elasticity H and bulkiness B, and add "compression elasticity (recovery) rate E" the three assessment items and indicators of "lofty V1" and "lofty V2"; modified linear density deviation rate, length deviation rate, double-length fiber the number of digits reserved after the decimal point for the indicators of dimension content and defect content;

- Deleted "other indicator requirements";
- Modified the quality difference requirements (see 5.3, 5.4 of the 2007 edition).
- Modified the rating method (see 7.4, 7.1.4 of the 2007 edition);
- Modified the retest evaluation method (see 7.5.5, 7.2.7 of the 2007 edition);
- Modified the marking requirements (see 8.1, 8.2 of the 2007 edition).

Please note that some contents of this document may refer to patents. The issuing agency of this document assumes no responsibility for identifying patents.

1 Scope

This document specifies the terms and definitions, product classification and identification, technical requirements, test methods, and inspection specifications of hollow polyester staple fiber for filling.

Rules and marking, packaging, transportation and storage requirements.

This document is applicable to the polyethylene terephthalate raw material, the linear density is 2.50dtex~22.22dtex, and the three Dimensional hollow polyester staple fiber. Hollow staple fibers of other specifications and types can be used by reference.

2 Normative references

The contents of the following documents constitute the essential provisions of this document through normative references in the text. Among them, dated references for documents, only the version corresponding to the date is applicable to this document; for undated reference documents, the latest version (including all amendments) is applicable to this document.

GB/T 4146 (all parts) Chemical fibers for textiles GB/T 6503 Test method for moisture regain of chemical fibers GB/T 14334 Sampling method of chemical fiber staple fiber GB/T 14335 Test method for linear density of chemical fiber staple fibers GB/T 14336 Test method for short fiber length of chemical fibers GB/T 14338 Test method for crimp properties of chemical fiber staple fibers GB/T 14339 Test method for defects of short fibers

of chemical fibers FZ/T 50002 Test method for chemical fiber irregularity FZ/T 50009.4 Test method for bulkiness and elasticity of hollow polyester staple fibers

3 Terms and Definitions

The terms and definitions defined in GB/T 4146 (all parts) apply to this document.

4.1 Classification of products

According to the number of holes, the products are divided into single hole, four holes, seven holes, nine holes, etc.; according to the finishing process, they are divided into silicon type and non-silicon type;

Component type and two-component type.

4.2 Product identification

Product identification should include. product specification, product classification, product name or batch number and other information, which can be effectively distinguished. The product specifications are based on the line Indicates density and length, for example. 6.67dtexx64mm, where 6.67dtex represents linear density and 64mm represents length. single hole or single component Type can omit the number of holes or component identification Example. 6.67dtexx64mm silicon-type two-component four-hole hollow polyester staple fiber.