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INDUSTRY STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

YC/T 169.2-2002

Replacing YC/T 169.2-2002

Determination of physical and chemical characteristics of tow for cigarette. Part 2: Linear density of filament

(English Translation)

Issued on: March 30, 2009 **Implemented on: May 1, 2009**

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Foreword

YC/T 169 "cigarette tow physical and chemical properties of determination" is divided into 12 parts.

--- Part 1. tow linear density;

--- Part 2. Single yarn density;

--- Part 3. number of crimps;

--- Part 4. tow crimp index and the crimp tow elastic recovery;

--- Part 5. breaking strength;

--- Part 6. cross-sectional shape and radial shaped degree;

--- Part 7. Regain;

--- Part 8. moisture content;

--- Part 9. oil content;

--- Part 10. residual acetone content;

--- Part 11. Titanium dioxide content;

--- Part 12. Packaging and appearance.

This section YC/T 169 Part 2.

This Part replaces YC/T 169.2-2002 "tow for cigarette was measured series of standards - Part 2. Single yarn density." this section compared with YC/T 169.2-2002 main changes are as follows.

--- By the name of this section. Change "series of standard measurement of tow for cigarette - Part 2 single linear density" to "physical and chemical properties of cigarette tow

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Determination - Part 2. Single thread density ";

--- "Normative references" to remove the GB/T 6529 "textiles conditioning and testing using standard atmosphere," adds GB/T 16447 "Tobacco and tobacco products, regulating and testing atmosphere";

--- Modify the measurement principle of representation;

--- Revised 4.2 cut size requirements;

--- Modified atmospheric conditions adjustment and testing requirements;

--- Modify the sample;

--- Modify the single thread density is calculated;

--- Measurement report adds two elements. the "difference measurement step with this Part" and "observed anomalies in the test";

--- Revised Appendix A number of test samples, number of tests reduced from 50 to 30;

--- Canceled the scope of Appendix B.

This part of the Appendix A and Appendix B are normative appendix.

This part by the State Tobacco Monopoly Bureau.

This part of the National Standardization Technical Committee of tobacco smokable material Technical Committee (SAC/TC144/SC8) centralized.

This section drafted by. China National Tobacco Quality Supervision and Inspection Center, Kunming Cellulose Fiber Co., Ltd., Zhuhai Cellulose Fiber Co., Ltd., Nantong Acetate Fiber Co., Ltd., Yunnan Tobacco Quality Supervision and Inspection Station.

1 Scope

YC/T of the provisions of section 169 of the cigarette tow single yarn density measurement method.

This section applies to tobacco smoke and cellulose diacetate tow polypropylene fiber tow.

2 Normative references

The following documents contain provisions which, through reference YC/T 169 of this text, constitute provisions of this section. For dated reference documents Member, all subsequent amendments (not including errata content) or revisions do not apply to this section, however, encouraged to reach under this section Parties to research agreement to use the latest versions of these documents. For undated reference documents, the latest versions apply to this section.

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GB/T 16447 Tobacco and tobacco products for conditioning and testing atmospheres (GB/T 16447-2004, ISO 3402:1999, IDT) YC/T 169.1-2009 cigarette tow physicochemical properties measured series of standards - Part 1. tow linear density Principle 3 Elimination of the fiber cut length after crimping, take a certain amount of fibers weighed calculated by the single yarn density in decitex (Dtex).

NOTE: To determine the density of cigarette tow single thread can use this part of the body specified in the middle of cutting weighing method can also be used oscillation method (see Appendix A) and tow line Density method (see Appendix B), the measurement methods used in the report should be specified.

4 Instruments and equipment

4.1

Balance. Weighing range 0 ~ 10mg, a sense of the amount of 0.02mg.

4.2

Middle cutter. cutting size should satisfy 25.0mm ± 0.1mm, or 30.0mm ± 0.1mm.

4.3

Other tools. a counter plate velvet black, thin comb (about 10 stitches/cm), dense comb (about 20 needles/cm), clips, tweezers, gloves.

5 Sampling

From laboratory samples randomly intercept length of about 100mm tow five sections, each section from the tow of about two fifths of the whole bundle Small strand fiber.

6 Measuring step

6.1

Before the test, according to GB/T 16447 samples were adjusted to regulate the more than 12h, and tested under the appropriate environmental conditions.

6.2

The tow opening hand, cut off both ends of the unopened portion of the fiber was opening state, about one-third of the fiber extracted from opening in tow Bundles.

6.3

hand holding one end of the fiber, and the other end is fixed on a black velvet board, first with dilute comb with a fine comb, from end to end fixed grip repeatedly Comb, to comb the fiber bundle of free fibers, the fibers separate, arranged in neat rows.

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6.4

Lift the middle of the cutter jaws, on a separate, lower jaw, carded fibers parallel on the good, the middle and lower jaw and the vertical edge, solid both ends of a given fiber bundles, the fibers parallel straight at minimum tension required to eliminate curly, close the plywood, cut fibers.

6.5

From the number of cut fiber bundles of 100 fibers, fiber count should be excluded free and shaped fibers.

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