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INDUSTRY STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

YC/T 169.7-2009

Replacing YC/T 169.7-2002

Determination of physical and chemical characteristics of tow for cigarette. Part 7: Moisture regain

(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 7.

This Part replaces YC/T 169.7-2002 "standard series measured tow for cigarette - Part 7. moisture regain." this section compared with YC/T 169.7-2002 main changes are as follows.

--- By the name of this section. Change "series of standards for cigarette tow measuring moisture regain Part 7" to "cigarette tow measured physical and chemical properties Part reference 7. Regain ";

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--- Measurement report in the "test results" to "environmental conditions and measurement results of the test";

--- Measurement report adds two things. "the provisions of this part of the step of determining the difference" and "observed abnormal test phenomenon".

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, Asia Technology Limited.

1 Scope

YC/T of the provisions of section 169 of the cigarette tow method for the determination of moisture regain.

This section applies to tobacco 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.

YC/T 27 cigarette polypropylene fiber tow Principle 3 After the sample was weighed, placed in (105 ± 2) °C oven drying to constant weight of water, wet weight and dry weight of the sample divided by the difference between the dry weight of the resulting one hundred Score, it means that the moisture regain of the specimen.

4 Equipment

4.1
Drying oven. Temperature fluctuation ± 1 °C, temperature uniformity of ± 2 °C.

4.2
Balance. a sense of the amount of 0.001g.

Weighing 4.3 box. diameter of about 64mm, height of about 40mm, sealing requirements.

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4.4
Sample container. for holding the sample, should be non-hygroscopic sealed container.

4.5
Other tools. yarn gloves, silicone dryers, scissors and so on.

5 Sampling

According to the provisions YC/T 27 sampling, after sampling should be weighed into the sample vessel and quickly sealed.

6 Measuring step

6.1
Oven power is turned on, so keep the vents in the half-open state, the inside temperature stable at 105 °C ± 2 °C.

6.2
Open the sample lid, the lid will be placed in the box with the middle blast drying oven 30min, stamped out into a dryer, and cooled to After weighing room temperature, accurate to 0.001g, then immediately placed in a dryer.

6.3 30g sample clip about evenly divided into two, were placed in two samples of known weight box, and immediately be covered with lid Weighing, accurate to 0.001g.

6.4
Open the sample cover, and the cartridge cover along the middle drybox blast drying, the sample cell density of 1/160cm2 ~ 1/200cm2; when the temperature rise and maintained at 105 °C ± 2 °C, the start time.

6.5
Timing over 90min, remove the stamp placed in the dryer. After cooling to room temperature, weighing, accurate to 0.001g.

6.6
Determination of personnel during the measurement should wear gloves yarn.

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