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NATIONAL STANDARD OF THE PEOPLE'S REPUBLIC OF CHINA

GB/T 24328.9-2020

Tissue paper and tissue products - Part 9: Determination of wet ball burst strength

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Foreword

GB/T 24328 "Toilet Paper and Its Products" is divided into the following 12 parts.

---Part 1.Terminology guidelines;

---Part 2.Determination of thickness, laminate thickness, apparent laminate tightness and bulk;

---Part 3.Determination of tensile strength, elongation at maximum force and tensile energy absorption;

---Part 4.Determination of wet tensile strength;

---Part 5.Quantitative determination;

---Part 6.Determination of water absorption time and water absorption capacity basket immersion method;

---Part 7.Determination of the burst resistance of the spherical shape;

---Part 8.Determination of optical properties, determination of brightness and color D65/10° (outdoor daylight conditions);

---Part 9.Determination of the burst resistance of the wet spherical shape;

---Part 10.Determination of the tensile strength of the punching line and calculation of the punching efficiency;

---Part 11.Determination of optical properties, determination of brightness and color C/2° (indoor daylight conditions);

--- Part 12.Determination of optical properties. Determination of opacity. Diffuse reflectance method.

This part is Part 9 of GB/T 24328.

This section was drafted in accordance with the rules given in GB/T 1.1-2009.

This part uses the redrafting law to amend and adopt ISO 12625-11.2012 "Tissue Paper

and its products Part 11.Wet spherical bursting strength

Determination of ".

The technical differences between this part and ISO 12625-11.2012 and the reasons are as follows.

---Modified the scope to adapt to the technical conditions of our country.

---Regarding normative reference documents, this section has made adjustments with technical differences to adapt to my country's technical conditions and adjustments.

The situation is collectively reflected in Chapter 2 "Normative Reference Documents", and the specific adjustments are as follows.

* Replace ISO 186 with GB/T 450 which is modified to adopt international standards;

* Replace ISO 187 with GB/T 10739, which is equivalent to the international standard;

* Replace ISO 12625-1 with GB/T 24328.1 which is modified to adopt international standards;

* Replace ISO 12625-9 with GB/T 24328.7 modified to adopt international standards;

* Delete ISO 7500-1 to adapt to the technical conditions of my country's paper industry;

* Added reference to GB/T 22903.

---Modified the terminology in Chapter 3 to conform to the usage habits of Chinese users (see 3.1, 3.2, 3.3 and 3.4).

--- Deleted ISO 7500-1 for calibration and verification of force measurement system in 6.4 to adapt to the technical conditions of my country's paper industry.

--- Deleted the method of improving the wet strength of the product in 8.2, the wet strength effect of the wet strength agent in the product under natural aging and accelerated aging conditions

The comparison shows to meet the standard technical conditions of our country.

--- Delete the note in Chapter 11 results calculation to meet the requirements of GB/T 24328.7.

---The Appendix B of ISO 12625-11.2012 was deleted to adapt to the technical conditions of our country.

This section has made the following editorial changes.

---Modified the standard name.

Please note that certain contents of this document may involve patents. The issuing agency of this document is not responsible for identifying these patents.

This part was proposed by the China National Light Industry Council.

This part is under the jurisdiction of the National Paper Industry Standardization Technical Committee (SAC/TC141).

Drafting organizations of this section. China Pulp and Paper Research Institute Co., Ltd., Huaibei Shengren Daily Necessities Co., Ltd., Hefei Telijie Sanitary Materials

Material Co., Ltd.

1 Scope

This part of GB/T 24328 specifies the determination of the resistance to mechanical penetration of toilet paper and its products after wetting (wet spherical bursting resistance)

method.

This section applies to toilet paper and its products.

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.

The collection of GB/T 450 paper and paperboard samples and the determination of the longitudinal and transverse directions, front and back sides of the samples (GB/T 450-2008, ISO 186.

2002, MOD)

GB/T 10739 Standard atmospheric conditions for handling and testing of paper, paperboard and pulp samples (GB/T 10739-2002, eqvISO 187.

1990)

GB/T 22903 Standard water for pulp physical test (GB/T 22903-2008, ISO 14487.1997, MOD)

GB/T 24328.1 Toilet paper and its products Part 1.Terminology guidelines (GB/T 24328.1-2020, ISO 12625-1.

2019, MOD)

GB/T 24328.7 Toilet paper and its products Part 7.Determination of spherical bursting strength (GB/T 24328.7-2020,

ISO 12625-9.2015, MOD)

3 Terms and definitions

The following terms and definitions defined in GB/T 24328.1 apply to this document.

3.1

Spherical bursting strength balburststrength

FD

Under the test conditions, the maximum force that the surface of the toilet paper and its product samples can withstand in the vertical direction.

Note. The spherical bursting strength is expressed in millinewtons (mN).

3.2

Wet balburststrength

FW

Under the test conditions, the maximum force that the wetted surface of the toilet paper and its products can withstand in the vertical direction.

Note. Wet spherical bursting strength is expressed in millinewtons (mN).

3.3

Wet sphere burst index wetbalburstindex

XW

The wet burst resistance is divided by the quantification of the sample after the temperature and humidity treatment, and the quantification is determined according to the standard method.