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**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB/T 24328.8-2020

**Tissue paper and tissue products - Part 8: Determination of
optical properties--Measurement of brightness and
colour--D65/10°(outdoor daylight conditions)**

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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 8 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 method to amend and adopt ISO 12625-7.2014 "Toilet paper

and its products-Part 7.Determination of optical properties

Measurement of brightness and color D65/10° (outdoor daylight conditions)".

Compared with ISO 12625-7.2014, this part has the following structural adjustments.

---Adjust the suspension section of 5.1 in ISO 12625-7.2014 to 5.1.1, and adjust 5.1.1, 5.1.2 in ISO 12625-7.2014 to corresponding

Adjusted to 5.1.2, 5.1.3.

The technical differences between this part and ISO 12625-7.2014 and the reasons are as follows.

---Modified the scope to adapt to my country's technical conditions;

---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 2469.2007 with non-equivalent adopting international standard GB/T 7973;
- * Replace ISO 187 with GB/T 10739, which is equivalent to the international standard;
- * Replace ISO 11475 with GB/T 22880-2008 which is modified to adopt international standards;
- * Replace ISO 5631-2.2008 with ISO 5631-2.2015.

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. Dongguan Quality Supervision and Testing Center of Guangdong Province, China Pulp and Paper Research Institute Co., Ltd., Anhui Qinghe Paper

Limited company.

1 Scope

This part of GB/T 24328 specifies the method for determining the brightness and color of toilet paper and its products under outdoor sunlight conditions.

This section applies to toilet paper and its products.

Note. The ultraviolet (UV) content of the instrument for measuring C/2° brightness and color is much lower than that specified in this section. GB/T 24328.11 describes C/2° brightness and color

Method of measurement.

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 7973 Determination of diffuse reflection factor of paper, paperboard and pulp (diffuse/vertical method) (GB/T 7973-2003, ISO 2469.

1994, NEQ)

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 22880-2008 Determination of CIE Whiteness of Paper and Paperboard, D65/10° (outdoor sunlight) (ISO 11475.2004, MOD)

ISO 5631-2.2015 Paper and cardboard color determination (diffuse reflectance method) Part 2.Outdoor daylight conditions (D65/10°)

[Paperandboard-Determinationofcolourbydiffusereflectance-Part 2.Outdoordaylightconditions

(D65/10degrees)]

3 Terms and definitions

The following terms and definitions apply to this document.

3.1

Reflection factor

The ratio of the radiant flux reflected by an object to the radiant flux reflected by a fully reflective diffuser under the same conditions.

Note 1. The reflection factor is expressed as a percentage.

Note 2. If the object is translucent, the reflection factor is affected by the backing.

3.2

Diffuse(radiance)reflectancefactor

The ratio of the radiation reflected and excited by an object to the reflection of a fully reflective diffuser under the same conditions.

Note. The ratio is expressed as a percentage.