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

GB/T 24289-2009

**Paper and board - Measurement of specular gloss.
75-degreegloss with a parallel beam, DIN method**

纸和纸板 镜面光泽度的测定 平行光束75°，DIN法

(English Translation)

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Foreword

This revised standard adopts ISO 8254-2:2003 "Paper and board Determination of specular gloss - Part 2. parallel beam 75 ° gloss Degree, DIN Law "(in English).

The standards with international standards ISO 8254-2:2003 compared to the main technical differences are as follows.

--- Requires each sample measured values in the four directions, vertical and horizontal to each sample was measured for each 1st in the international standard;

--- Reference Standard GB/T 450-2008 "take paper and cardboard sample and the sample vertical and horizontal, positive and negative determination" to modify the use of ISO 186:2002;

--- Reference Standard GB/T 8941-2007 "Paper and board - Determination of specular gloss (20 ° 45 ° 75 °)" modify the use of ISO 8254-1:1999 and ISO 8254-3:2004;

--- Reference Standard GB/T 10739-2002 "Paper, paperboard and pulp sample processing and testing standard atmospheric conditions" equivalent to using ISO 187:1990.

Appendix A of this standard is a normative appendix.

The standard proposed by China National Light Industry Council.

This standard by the National Standardization Technical Committee of the paper industry.

This standard was drafted. China Pulp and Paper Research Institute, the national paper quality supervision and inspection center, China Paper Association Professional Committee of Standardization Members will.

1 Scope

This standard specifies the method for parallel beam with 75 ° angle of incidence Paper and cardboard specular gloss.

This standard applies to less than 65 gloss of flat paper and cardboard. Less than 20 gloss paper and cardboard may be preferred to this standard.

This standard is also measured material containing optical brightening agents.

2 Normative references

The following documents contain provisions which, through reference in this standard and become the standard terms. For dated references, subsequent Amendments (not including errata content) or revisions do not apply to this standard, however, encourage the parties to the agreement are based on research Whether the latest versions of these documents. For undated reference documents, the latest versions apply to this standard.

GB/T 450 and take samples to an aspect of paper and paperboard samples, positive and negative determination (GB/T 450-2008, ISO 186.

2002, MOD)

GB /8941 paper and board Determination T specular gloss (20 ° 45 ° 75 °) (GB/T 8941-2007; ISO 8254-1.

1999, MOD; ISO 8254-3:2004, MOD) GB/T 10739 paper, paperboard and pulp sample processing and testing standard atmospheric conditions (GB/T 10739-2002, eqvISO 187.

1990)

3 Terms and Definitions

The following terms and definitions apply to this standard.

As the angle of illumination and measuring the reflected light distribution at the receiver.

For measuring the amount of light reflection apparatus.

Specular gloss for a given angle of incidence, the variable aperture (A.2.1) defined fixed angle measurement, the reflection characteristic curve points positive More than 100 times higher than the gloss reference sample measured value is equal to the measured value and the definition of 5.2.2.

Principle 4

In parallel with the normal to the beam incident angle of 75 °, applied to the sample at a given aperture defined fixed angular range, equal to the angle of reflection Angle to

determine the value of reflection. Reflectometer value reflected by the black quartz glass plate or a wedge having a specific reflectance calibrated.

5.1 Reflectometer

Reflectometer should include the following major components. collimator, anti-parallel light tubes, light source device, the photoreceptor and the sample holding means, see Appendix A.