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JJF 1814-2020

Calibration Specification for Haze Tablets

雾度片校准规范

(English Translation)

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Introduction

JJF 1032 "Terms and Definitions of Optical Radiation Metrology", JJF 1071 "National Metrology and Calibration Specifications Compilation Rules Rules" and JJF 1059.1 "Measurement Uncertainty Evaluation and Representation" together constitute a basic series supporting the formulation of this specification.

This specification is released for the first time.

Haze sheet calibration specification

1 Scope

This specification applies to the calibration of standard haze sheets and working haze sheets, as well as the use of haze meters for plate, sheet, thin Calibration of haze and visible light transmittance of transparent materials such as film.

2 Reference documents this specification refers to the following documents.

JJF 1032 Terms and Definitions of Optical Radiation Metrology JJF 1303 Haze Meter Calibration Specification GB/T 2410 Determination of light transmittance and haze of transparent plastics ASTMD1003 Standard Test Method for Haze and Transmittance of Transparent Plastics (StandardTestMethod forHazeandLuminousTransmittanceofTransparentPlastics) for dated reference documents, only the dated version applies to this specification; for undated references the latest version (including all amendments) is applicable to this specification.

3 Term

3.1 Haze

The ratio of the diffuse transmittance taud of the sample to its total transmittance taut, multiplied by 100, the symbol is Hd, and the unit is 1.

taud

tautx

100 (1)

3.2 Hazemeter

An instrument for measuring haze. Integrating sphere method with specific geometric conditions is used for measurement. The instrument is mainly composed of integrating sphere, light Source, collimation system, sample chamber, light trap, standard reflector, photometric detector and signal processing.

4 overview

Haze is an important parameter describing the physical properties of transparent materials,

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and it characterizes the scattering and transmission characteristics of materials. fog Degree measurement has been widely used in plastic films, liquid crystal display materials, chemical raw materials, automotive safety glass, architectural glass Product testing and quality control in the fields of glass, face protection lenses, aerospace, etc. The haze sheet is passed as the haze measurement value the carrier and the measuring instrument calibrated by the haze meter can store the haze measurement value reliably, stably and conveniently.

The calibration and uniformity of the haze measurement value play an important role.

The haze of the haze sheet or transparent material is usually calibrated and measured with a haze calibration device or a haze meter. Haze film or the effective size of the haze measurement sample is larger than the opening size of the integrating sphere of the haze measurement device. For passing and saving fog metrics the recommended haze sheet dimensions are 50mmx50mm square or phi60mm round, and the effective haze test at the center the area is not less than phi30mm to meet the measurement requirements of the haze meter.

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