

Multifunctional Whiteness Meter

BGD 584 Multi-function Whiteness Meter adopts liquid crystal display, integrates light, mechatronics and micro-computer measurement and control technology, and has the function of test data statistics processing, which can quickly and accurately measure the whiteness (brightness) of various objects. It can be widely used in the determination of whiteness of pigments, fillers or other powders in coatings, as well as in papermaking, textile, printing and dyeing, plastics, ceramics, enamel, grain, building materials and other industries. The instrument can measure not only ISO brightness (R457 whiteness), but also the fluorescent whiteness of fluorescent materials, and also the brightness stimulation value Y10, transparency, opacity, light scattering coefficient and absorption coefficient of coating, paper and other thin page materials.

BGD 584 complies with **CIE 15** and **CIE S 005** standard illuminants and geometric conditions, simulating D65 illuminant lighting, adopting d / 0 lighting observation geometry conditions, diffusion ball diameter is ϕ 150 mm, with two test hole diameter, ϕ 30mm and ϕ 19mm, equipped with light absorber, eliminating the influence of specular reflection light (SCE). The peak wavelength of spectral power distribution of R457 whiteness optical system is 457 nm, half height and width is 44 nm.

Standards:

ISO 105-J02 Textiles-Tests for color fastness-Part J02: Instrumental assessment of relative whiteness

ISO 2470-2: 2008 Paper, board and pulps - Measurement of diffuse blue reflectance factor - Part 2: Outdoor daylight conditions (D65 brightness)

ISO 2471: 2008 Paper and board - Determination of opacity (paper backing) - Diffuse reflectance method

ISO 11475: 2017 Paper and board - Determination of CIE whiteness, D65/10 degrees (outdoor daylight)

ASTM E 313 Standard Practice for Calculating Yellowness and Whiteness Indices from Instrumentally Measured Color Coordinates

DIN 53186 Testing of pigments and extenders - Determination of whiteness

Features:

- ◆ Come with powder sampler for powder measurement
- ◆ Come with thermal printer
- ◆ Can measure continuously sample many times and calculate automatically the arithmetic mean value.
- ◆ With power-off protection, zero adjustment, alignment, standard value and other data, even if the power is lost for a long time, the data will not be lost.



Scan for video

Main Technical Parameters:

- ★ Measurement Range: 0.0-120.0
- ★ Zero Drift: ≤ 0.1 %
- ★ Indication Drift: ≤ 0.1 %
- ★ Indication Error: ≤ 0.5 %
- ★ Repeatability: ≤ 0.1 %
- ★ Specular Reflectance Error: ≤ 0.1 %
- ★ Sample Size: test plane $\geq \phi$ 30mm, thickness ≤ 40 mm
- ★ Power Supply: 220V $\pm$ 10%, 50Hz, 0.3A
- ★ Working Condition: temperature 0-40 °C, relative humidity < 85%
- ★ Overall Dimension (L x W x H) : 365mm x 260mm x 425mm
- ★ Net Weight: About 11kg

Ordering Information:

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