



**Thwing-Albert
Instrument Company**

More Than a Century of Testing Solutions

IDM[®]
instruments

Opacimeter Model 2100



The 2100 Opacimeter provides objective measurements of opacity and intensity variation while eliminating variations due to gloss.

Opacity is a vital characteristic to sheet-formed, cast or molded consumer products that require a minimum opacity to prevent “show-through” of printing, fill-levels or packaged contents. Typical materials tested include paper, plastic blow molding, and film operations with pigmented products. For materials at the transparent end of the scale, such as tinted windshields and plastic films, the opacimeter excels at measuring haze, clarity and density variations.

Model 2100 Exceeds TAPPI T425

Model 2100 exceeds the instrument specifications of T425 in terms of resolution at the high end of the scale, absolute accuracy at the low end of the scale, photometric linearity and day-to-day repeatability. It offers better resolution for high opacity paper by using direct illumination geometry backed by a high reflectivity diffuse white body compared to diffuse illumination backed by a pad of paper.

Specifications

Opacity Range: 0-100.0 Contrast Ratio Points

Resolution: 0.1%

Unit to Unit Agreement: 0.2%

Power Rating: 120V/60 Hz, 220 V/50 Hz

Weight: 55 lbs (25 kg)

Shipping Dimensions:

16" W x 31" D x 24" H
(406.4 mm x 787.4 mm x 609.6 mm)

Instrument Dimensions:

8.5" W x 23.5" D x 15.5" H
(215.9 mm x 597 mm x 393.7 mm)

Features

- Microcomputer controlled display with pushbutton zero and 100.0 adjustments
- Computer established zero point and span averts drift during each measurement
- Microthread white body calibration
- Easy access for inspection of the backings and optics
- High reflectivity white backing
- Bright planar LED digital display
- RS-232 computer output
- Standards:
TAPPI T425
(can be configured to meet ASTM D1003)

Specifications subject to change without notice.

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