

## Model 2100 Opacimeter

Opacity is a vital characteristic to sheet-formed, cast or molded consumer product that requires a minimum opacity to prevent “show-through” of printing, fill-levels or packaged contents. Opacity can be increased by adding pigment to the base material but since pigments are much more expensive it is costly to add too much. The opacimeter quickly pays for itself in product development and production quality control by minimizing pigment use and cost. It is superior to the human eye as it provides objective values that are 15 times as sensitive to intensity variation and immune to gloss variations. At the transparent end of the scale, the opacimeter excels at measuring haze, clarity and density variations for tinted windshields and packaging materials.

### 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.

### Technical specifications

#### Opacity Range

0-100.0 Contrast Ratio Points

#### Resolution

0.1 %

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0.1%

#### Unit to Unit Agreement:

0.2%

#### Power Rating

120V/60 Hz, 220 V/50 Hz



### Physical specifications

#### Instrument Dimensions

215.9 mm x 597 mm x 393.7 mm

#### Shipping Dimensions

406.4 mm x 787.4 mm x 609.6 mm

#### Weight

25 kg

### 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