

J406L AND J407L GLOSSMETERS



*J407L measures gloss at 20, 60, 85°
J406L-2060S measures gloss at 20, 60°
J406L-60S measures gloss at 60°*

Features

- Measures any surface from gloss to matte
- Up to 200 statistical readings per angle can be stored internally
- Can be used in accordance with:
AS 1580-602.2
ASTM C584
ASTM D523
ASTM D1455
BS DIN EN ISO 2813
ISO 7668
JIS Z 8741
- Autoranging internal calculation of maximum, minimum, mean standard deviation and coefficient of variation
- Menus available in English, Spanish, Dutch, French, German, Italian
- Use with Elcometer® Novo-Soft™ software for further analysis and archiving

Elcometer Novo-Soft Software

This software provides the user with an easy-to-use package for reporting purposes, for archiving gloss measurements and for further analysis.

- Results Page Numerical data are displayed and may be tagged or edited
- Results Graph Displays results in a simple graph of reading vs. gloss
- Statistics Graph Data displayed as a bar chart (histogram)

Appearance

Appearance measurement is a way of putting numbers to characteristics of surfaces that we see. The ability to independently quantify appearance allows for products to be similar whenever and wherever the product is manufactured or coated. Elcometer provides a comprehensive range of handheld instruments to measure most of the individual characteristics that generate the overall appearance of a material or coating.

Gloss

Gloss is the ability of a surface to reflect light without scattering. It is measured by directing a constant power light beam at an angle to the test surface and then by monitoring the amount of reflected light. Different surfaces require different reflective angles. Elcometer glossmeters cover the range necessary to measure almost any surface from high gloss to matte, from large to small surfaces, flat or curved.

Haze

Some materials appear to have considerable differences in gloss yet give comparable readings when measured with a glossmeter at one angle. Measuring at a second angle and comparing the difference of the two readings can separate these materials. Haze is de-

finied by ASTM D4039 as the difference between gloss at 60° and gloss at 20°.

Shade

This is the measurement of darkness or lightness of a surface. Only shading is measured, irrespective of color, and is referred to as "whiteness." The test surface is illuminated at an angle of 45° and the intensity of scattered light at the perpendicular (0°) is measured on a gray scale where black is 0% and white is 100%.

Opacity

This is the degree to which a coating will obscure the surface to which it has been applied. Opacity is measured in a similar way to shade, however opacity (or hiding power) - as defined by ISO 2814 - involves measuring whiteness of a known film of test material on both a black (less than 5%) and a white (greater than 75%, less than 85%) substrate.

Color

Color is quantified by the red, green and blue (RGB) values of the material. A characteristic of color is the ability of a material to absorb certain wavelengths of light and to reflect others. For example, a black material reflects no light across the complete color spectrum, whereas a pure white material reflects all light. All other colors reflect light at different points of the spectrum.

Specifications

J407L

Reproducibility +.5 gloss units
Resolution .1 gloss unit
Physical Characteristics
7.5x4.3x2.3"/19x11x6cm
33 oz./950 gr.
Power Supply
4 Dry Cell (AA) Batteries

J406L-60S and J406L-2060S

Reproducibility +.5 gloss units
Resolution .1 gloss unit
Physical Characteristics
4.9x2x3.9"/12.5x5x10cm
12.3 oz./350 gr.
Power Supply
5 Dry Cell LR03 (AAA) Batteries