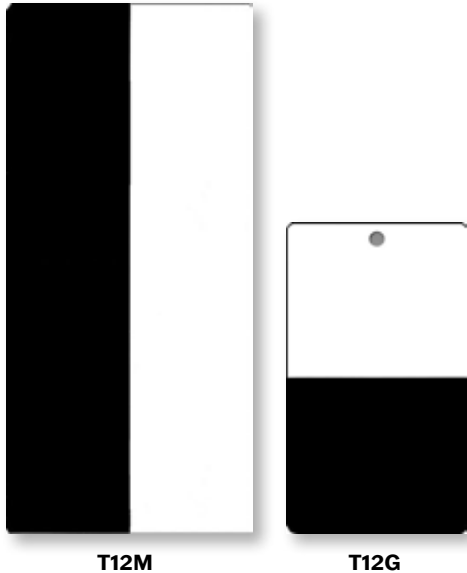


Painted Steel Panels for Measuring the Hiding Power of Powder Coatings and Industrial Enamels



Black Surface:

- Solvent Resistant
- Non-Bleeding,
- Reflectance 1% maximum

White Surface:

- Solvent Resistant
- Color Retentive
- Reflectance 78% minimum

FORM NO.	COLOR	AREA*	SIZE	BOX QUANTITY
T12G	Black & White	100 cm ²	3 x 5 ³ / ₁₆ in 76 x 132 mm	125
T12M	Black & White	368 cm ²	5 ³ / ₁₆ x 11 in 132 x 279 mm	50

*Allowing for 1/4 inch (6 mm hole) in T12G

MAJOR USES:

ASTM Method D6441:

Measuring the Hiding Power of Powder Coatings

A wedge shape film is applied on a T12G or T12M panel. Points of specified film thickness are located over the black and white areas, reflectances are measured and the mean contrast ratio at that film thickness is calculated.

Alternatively, several black/white pairs of equal-thickness points at various film thicknesses are located and the calculated contrast ratio plotted graphically against the film thickness to obtain the film thickness at a contrast ratio of 0.98. In this method the reflectance is measured with a small diameter aperture (e.g. 4 mm), and the film thickness with an electronic film thickness gage.

Powder Coatings Institute Method:

In this method the film thickness is determined directly on a T12G panel at 0.98 Contrast Ratio. Alternatively, the Contrast Ratio is determined at a specified film thickness. Reflectance and film thickness instrumentation are as in ASTM D6441.

ASTM Method D2805:

Hiding Power of Paints by Reflectometry

The film is applied uniformly over a panel. The film weight and reflectance R_0 are determined on the black area, and the reflectivity R_∞ of the coating determined using the black and white areas. The gravimetric spreading rate at 0.98 Contrast Ratio is then calculated using Kubeika-Munk equations. Conversion to volumetric spreading rate or to film thickness is readily accomplished.



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