

Technical Data Sheet

Product Code: WO-M13-XX

Description: High diffuse reflectance metal laminate, matte finish

Availability:

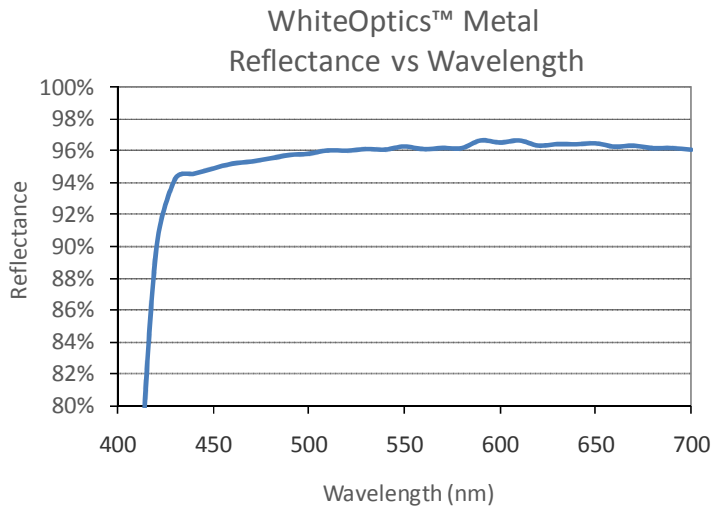
<u>Sheet and Coil</u>	<u>Thickness</u>	<u>Width</u>
Aluminum	0.012, 0.016	48"
Steel	0.020 to 0.030	54"

Options: Custom width coil, sheet size
 Removable protective film

Formability: Can be roll formed, die stamped, punched; no bend restrictions

Bond Strength: Film-tearing bond strength

Optical Properties		
Properties	Value	Method
Reflectance at 550nm	96.3%	ASTM E1164
L* value	98.1	ASTM E308
a value	-0.04	ASTM E308
b value	0.12	ASTM E308
Gloss (60 degree)	<8.0%	ASTM D2457



Environmental Durability

UV Stability	Does not yellow with exposure to ultraviolet 1000 hours UVA (340nm), less than 0.5% reflectance change 1000 hours UVB (313nm), less than 0.5% reflectance change
Thermal Stability	2000 hours @ 80 °C, less than 0.5% reflectance change
Humidity Stability	1000 hours @ 60 °C, 95%RH, less than 0.5% reflectance change
Dirt Depreciation	Antistatic, does not attract dust
Abrasion Resistance	500 cycles Taber test, less than 0.5% reflectance change
Chemical Resistance	Compatible with most common cleaning solutions including ammonia, 409, dilute bleach solution and alcohols



For more information, email: inquiries@whiteoptics.com

This information has been carefully compiled from experience gained in the laboratory and under commercial conditions. However, the product's performance and its suitability depends on the particular conditions of use. We recommend that customers satisfy themselves that each product meets their requirements in all respects. This information is being provided by WhiteOptics LLC free of charge as a courtesy to customers, and WhiteOptics LLC HEREBY DISCLAIMS ALL REPRESENTATIONS, WARRANTIES AND LIABILITIES WITH RESPECT TO THE INFORMATION AND USE THEREOF. WhiteOptics™ Metal is a trademark exclusive to WhiteOptics LLC. All rights reserved.