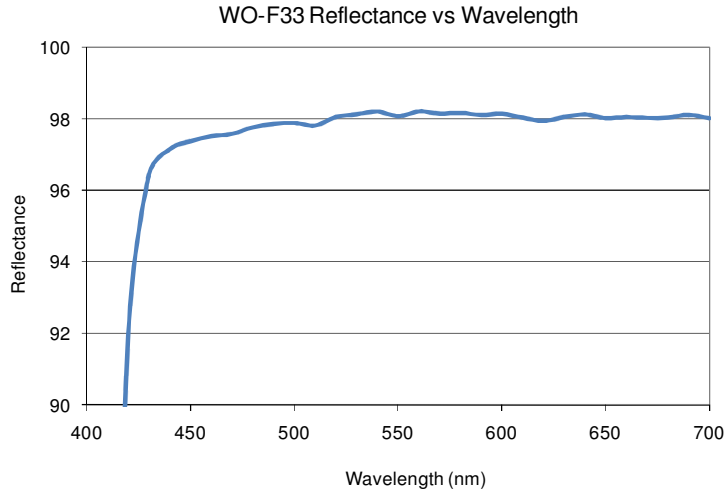




WhiteOptics™ White98 Film

Reflector Film Technical Data Sheet

Product Code: WO-F33
Description: High diffuse reflectance film, matte finish
Options: Available on a roll or as custom die-cut parts
 Available with or without adhesive backing and liner



Optical			Mechanical/Thermal		
Properties	Value	Method	Properties	Value	Method
Reflectance at 550nm	98.0%	ASTM E1164	Thickness (microns)	650	Ono Sokki EG225
L* value	99.0	ASTM E308	Tensile Strength (MPa)	34.5	ASTM D882
a value	-0.04	ASTM E308	Deformation Temp (°C)	124	JIS K7196-1991
b value	0.12	ASTM E308	Melt Temperature (°C)	133	ASTM D3418
Gloss (60 degree)	<8.0%	ASTM D2457	Coefficient of Thermal Expansion, (um/m*°C)	70	ASTM E831-05

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™ White97 is a trademark exclusive to WhiteOptics LLC. All rights reserved.