

WHITEOPTICS™

White97



White97

Description

WHITEOPTICS™ White97 is a unique, patent-pending polyethylene fiberbased composite film with exceptional diffuse reflectance properties. Total reflection is greater than 97% and specular reflection is less than 8%. White97 is 0.018"(.5mm) thick and is available in rolls up to 58" wide, standard sheets of 50"x58" as well as almost any custom cut. Film is available with or without Pressure Sensitive Adhesive (PSA) and release film. LexaLite® brand offers slitting, shear cutting, laser cutting and die cutting to provide the best solution for your production requirements.

Application

Ideally suited for any fixture in which trapped light reduces fixture efficiency. White97 is especially effective in:

- Linear fluorescent fixtures where the lamp is mounted close to the reflector
- Horizontally lamped CFL downlight fixtures
- LED fixtures for direct mounting on the board and/or as a mixing reflector
- Induction fixtures where the large light source makes light extraction difficult
- Fixtures with low transmission lenses, such as sconces or other white diffusers

Ordering Information

Please call 877-257-5841 for price and delivery.

Notice

A.L.P. Lighting Components, Inc. assumes no responsibility for suitability of these materials in any luminaire or application. The use of this material at temperatures above 80°C and/or with high UV output light sources may cause degradation of the material.

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Diffuse highly reflective film enhances fixture efficiency providing an opportunity for energy and cost savings.

Materials: Flashspun High-Density Polyethylene (HDPE) Composite

PSA: Acrylic-based pressure sensitive adhesive with siliconized PET release liner available.

All materials are RoHS compliant

Thickness: 0.018" (.5mm)
Max temp: 80°C
Standard Size: 50" x 58"

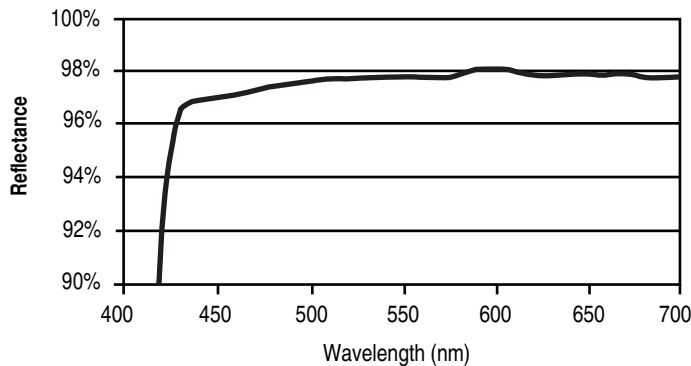
Available in rolls, custom widths up to 58" wide, stack shear cut, die-cut or laser cut custom shapes. Optional adhesive backing and release liner.



A.L.P.
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 **LEXALITE**

White97 Reflectance vs Wavelength



Optical

Properties	Value	Method
Reflectance at 550nm	97.3%	ASTM E1164
L* value	98.9	ASTM E308
a value	-0.04	ASTM E308
b value	0.12	ASTM E308
Gloss (60 degree)	<8.0%	ASTM D2457

Mechanical Thermal

Properties	Value	Method
Thickness (microns)	425	Ono Sokki EEG225
Tensile Strength (MPa)	34.5	ASTM D882
Deformation Temp (°C)	124	JIS K7196-1991
Melt Temperature (°C)	133	ASTM D3418
Coefficient of Thermal Expansion (um/m*°C)	70	ASTM E831-08

Environmental Durability

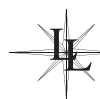
UV Stability	Does not yellow with exposure to ultraviolet. 1000 hours UVA (340nm), less than 0.5% reflectance change. 1000 hours UVB (313nm), less than 0.5% reflectance change.
Thermal Stability	2000 hours @ 100°C, less than 0.5% reflectance change
Humidity Stability	1000 hours @ 60°C, 95%RH, less than 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 alcohols

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 customer, and WhiteOptics LLC HEREBY DISCLAIMS ALL REPRESENTATIONS, WARRANTIES AND LIABILITIES WITH RESPECT TO THE INFORMATION AND USE THERE OF. WhiteOptics™ White97 is a trademark exclusive to WhiteOptics LLC. All right reserved.

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