

# Zenith<sup>®</sup> Diffusion Material

Durable, low cost diffusers for backlighting systems



## Unique properties

Labsphere's Zenith Diffusers are made of a PTFE based polymer with unique optical properties. The thin sheets offer diffuse transmittance for a variety of light scattering applications, as well as diffuse reflectance and durability for a variety of backlighting applications. The material is ideal for use as radiometric and photometric diffusers, general backlighting, flat panel, and display applications.

## Variety of sizes and thicknesses

Zenith Diffusers are available in thicknesses of 100  $\mu\text{m}$ , 250  $\mu\text{m}$ , 500  $\mu\text{m}$ , 1 mm and 2 mm with transmission values of approximately 4% to 50% over the wavelength region covering 250 to 2500 nm. Custom sizes and thicknesses are available upon request.

## Value

- Lambertian
- Durable, cleanable
- High transmittance with low backscatter characteristics

## Applications

- Radiometric and photometric diffusers
- General backlighting
- Flat panels
- Displays

## Ordering Information

Order Number	Dimension	Thickness	Transmission
SG 3201	8 x 12 inch (20 x 30 cm)	100 $\mu\text{m}$	approx. 50%
SG 3203	8 x 12 inch (20 x 30 cm)	250 $\mu\text{m}$	approx. 25%
SG 3205	8 x 12 inch (20 x 30 cm)	500 $\mu\text{m}$	approx. 16%
SG 3210	8 x 12 inch (20 x 30 cm)	1 mm	approx. 8%

## Typical Transmission Values

