

Zenith Polymer[®] White Diffuser

**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 μm , 250 μm , 500 μm , 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.

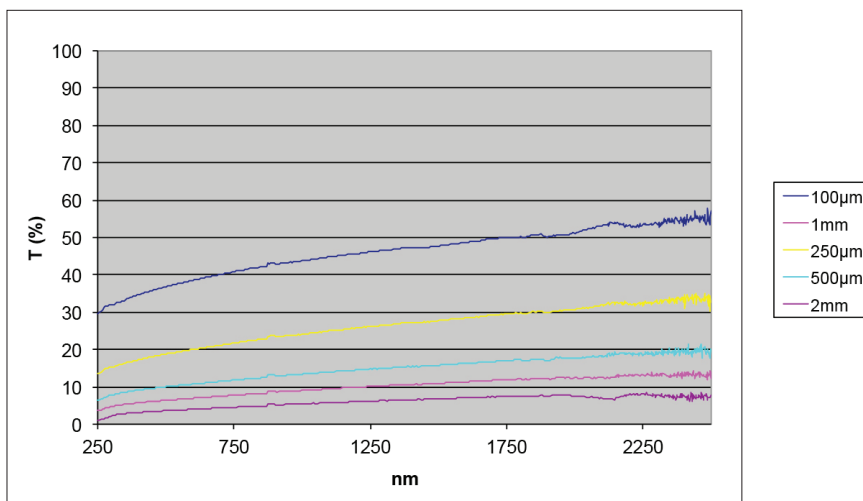


Value:

- Lambertian
- Durable, Cleanable
- High Transmittance with Low Backscatter Characteristics

Applications:

- Radiometric and Photometric Diffusers
- General Backlighting
- Flat Panels
- Displays



Typical Transmission Values

Ordering Information

Order Number	Description	Transmission
SG 3201	Diffuser, 100 µm thickness, 300 x 200 mm (approx. 11.8 x 8 inch)	≈ 50%
SG 3234	Diffuser, 100 µm thickness, 300 x 1000 mm (approx. 11.8 x 40 inch)	≈ 50%
SG 3203	Diffuser, 200 µm thickness, 300 x 200 mm (approx. 11.8 x 8 inch)	≈ 25%
SG 3204	Diffuser, 200 µm thickness, 300 x 500 mm (approx. 11.8 x 20 inch)	≈ 25%
SG 3235	Diffuser, 200 µm thickness, 300 x 1000 mm (approx. 11.8 x 40 inch)	≈ 25%
SG 3205	Diffuser, 500 µm thickness, 200 x 200 mm (approx. 8 x 8 inch)	≈ 16%
SG 3206	Diffuser, 500 µm thickness, 500 x 500 mm (approx. 20 x 20 inch)	≈ 16%
SG 3210	Diffuser, 1 mm thickness, 200 x 200 mm (approx. 8 x 8 inch)	≈ 8%
SG 3211	Diffuser, 1 mm thickness, 500 x 500 mm (approx. 20 x 20 inch)	≈ 8%
SG 3212	Diffuser, 1 mm thickness, 1000 x 1000 mm (approx. 40 x 40 inch)	≈ 8%
SG 3213	Diffuser, 2 mm thickness, 200 x 200 mm (approx. 8 x 8 inch)	≈ 4%
SG 3214	Diffuser, 2 mm thickness, 500 x 500 mm (approx. 20 x 20 inch)	≈ 4%
SG 3215	Diffuser, 2 mm thickness, 1000 x 1000 mm (approx. 40 x 40 inch)	≈ 4%