

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.

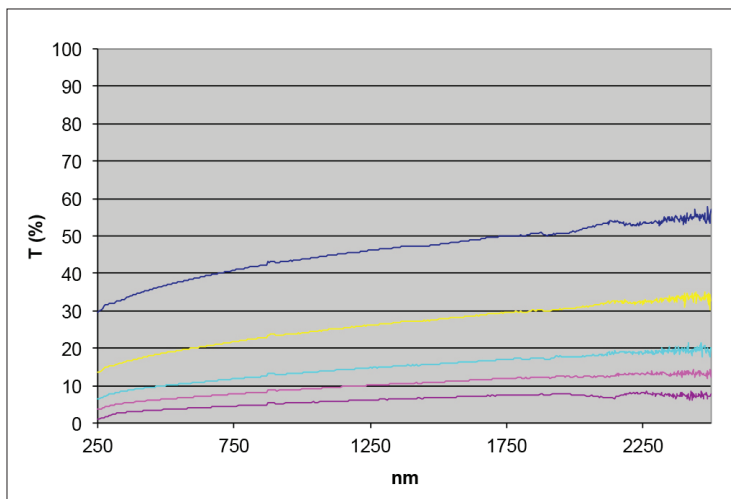


Features:

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

Applications:

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



Typical Transmission Values

Specifications and Ordering Information

Order Number	Model Number	Transmisson	Thickness	Size
AA-90046-250	SG 3201	≈ 50%	100 μm	300 x 200 mm (approx. 11.8 x 8 inch)
AA-90046-550	SG 3202	≈ 50%	100 μm	300 x 500 mm (approx. 11.8 x 20 inch)
AA-90046-350	SG 3234	≈ 50%	100 μm	300 x 1000 mm (approx. 11.8 x 40 inch)
AA-90046-225	SG 3203	≈ 25%	200 μm	300 x 200 mm (approx. 11.8 x 8 inch)
AA-90046-525	SG 3204	≈ 25%	200 μm	300 x 500 mm (approx. 11.8 x 20 inch)
AA-09946-325	SG 3235	≈ 25%	200 μm	300 x 1000 mm (approx. 11.8 x 40 inch)
AA-90046-216	SG 3205	≈ 16%	500 μm	200 x 200 mm (approx. 8 x 8 inch)
AA-90046-516	SG 3206	≈ 16%	500 μm	500 x 500 mm (approx. 20 x 20 inch)
AA-90046-208	SG 3210	≈ 8%	1 mm	200 x 200 mm (approx. 8 x 8 inch)
AA-90046-508	SG 3211	≈ 8%	1 mm	500 x 500 mm (approx. 20 x 20 inch)
AA-90046-008	SG 3212	≈ 8%	1 mm	1000 x 1000 mm (approx. 40 x 40 inch)
AA-90046-204	SG 3213	≈ 4%	2 mm	200 x 200 mm (approx. 8 x 8 inch)
AA-90046-504	SG 3214	≈ 4%	2 mm	500 x 500 mm (approx. 20 x 20 inch)
AA-90046-004	SG 3215	≈ 4%	2 mm	1000 x 1000 mm (approx. 40 x 40 inch)
AA-90046-080	SG 3230	≈ 80%	1 mm	1000 x 1000 mm (approx. 40 x 40 inch)
AA-90045-580	SG 3229	≈ 80%	1 mm	500 x 500 mm (approx. 20 x 20 inch)
AA-90045-280	SG 3228	≈ 80%	1 mm	200 x 200 mm (approx. 8 x 8 inch)
AA-90045-050	SG 3224	≈ 50%	1 mm	1000 x 1000 mm (approx. 40 x 40 inch)
AA-90045-550	SG 3223	≈ 50%	1 mm	500 x 500 mm (approx. 20 x 20 inch)
AA-90045-250	SG 3222	≈ 50%	1 mm	200 x 200 mm (approx. 8 x 8 inch)
AA-90045-030	SG 3233	≈ 30%	1 mm	1000 x 1000 mm (approx. 40 x 40 inch)
AA-90045-530	SG 3232	≈ 30%	1 mm	500 x 500 mm (approx. 20 x 20 inch)
AA-90045-230	SG 3231	≈ 30%	1 mm	200 x 200 mm (approx. 8 x 8 inch)
AA-90045-020	SG 3221	≈ 20%	1 mm	1000 x 1000 mm (approx. 40 x 40 inch)
AA-90045-520	SG 3220	≈ 20%	1 mm	500 x 500 mm (approx. 20 x 20 inch)
AA-90045-220	SG 3219	≈ 20%	1 mm	200 x 200 mm (approx. 8 x 8 inch)
AA-90045-010	SG 3227	≈ 10%	1 mm	1000 x 1000 mm (approx. 40 x 40 inch)
AA-90045-510	SG 3226	≈ 10%	1 mm	500 x 500 mm (approx. 20 x 20 inch)
AA-90045-210	SG 3225	≈ 10%	1 mm	200 x 200 mm (approx. 8 x 8 inch)
AA-90045-005	SG 3218	≈ 5%	1 mm	1000 x 1000 mm (approx. 40 x 40 inch)
AA-90045-505	SG 3217	≈ 5%	1 mm	500 x 500 mm (approx. 20 x 20 inch)
AA-90045-205	SG 3216	≈ 5%	1 mm	200 x 200 mm (approx. 8 x 8 inch)