

Type _____
 Project _____
 Date _____

Frosted Lens for LED Diffusion

Description

This colorless frosted lens overlay provides optimal light management for LED applications requiring moderate diffusion characteristics. Engineered from high-clarity optical-grade plastic, the overlay achieves 92% light transmission efficiency while effectively softening and distributing light output.

The moderate diffusion level strikes an ideal balance between maintaining brightness and reducing hot spots or point-source glare from individual LEDs. With a 20-degree half angle, the overlay produces a controlled, uniform beam spread suitable for both accent lighting and general illumination applications.



Part Number Breakdown Example

PXT	L	4997	080
Family	Color	Dimensions	Thickness

PXT: Acrylic L: Colorless 4997: 49" x 97"
 24: 24" x 48" 080: .080in



Features and Benefits

- Matte textured surface on 2 sides.
- Light transmission consistent throughout full thickness
- Optimized for high light transmission while maintaining excellent diffusion
- Superior blending power to eliminate LED "hot-spots"

Applications

- LED panel backlighting
- Channel letter illumination
- Display case lighting
- Signage and architectural accent lighting
- Fixture lens applications requiring glare reduction

Ordering Guide

Frosted Acrylic								
Nominal Size	Dimensions	Color	Light Transmission	Diffusion	Half Angle	Thickness*	Part Number	
49" x 97"	49" x 97"	Colorless	92%	Moderate	20	.080 in [2 mm]	PXT-L-4997-080	
24" x 48"	24" x 48"					.080 in [2 mm]	PXT-L-24-080	

*Note: Thickness Tolerance: +0/-0.010" on all SLP flat sheet

