



Backlite

0.01" Polycarbonate — Flexible Matte White

Flexible polycarbonate film for light boxes and illuminated frames with even light diffusion.

Environment: Indoor & Outdoor | **Print sides:** Single-sided
Size: Custom size | **Longevity:** Medium to long-term (framed / lightbox)

COMMON USES

- Light boxes
- Sign frames
- Retail illuminated displays
- Menu light panels

OPTIONS

- Custom size

TECHNICAL DATA — MECHANICAL / THERMAL / PHYSICAL

Thickness	0.01 in (0.25 mm class)
Tensile modulus (ASTM D882)	~300,000 psi
Tensile elongation at break (ASTM D882)	100–150%
@Yield (ASTM D882)	~8500 psi
Ultimate (ASTM D882)	~9000 psi
Tear initiation (ASTM D1004)	1.4–1.8 lb/mil
Tear propagation (ASTM D1922)	30–55 g/mil
Gardner impact @ 0.03 in (ASTM D3029)	~23 ft-lb
Thermal conductivity (ASTM D5470)	~1.35 Btu/hr/ft²/°F/in
CTE (ASTM E831)	~3.2 × 10 ⁻⁵ /°F
Glass transition (ASTM D3417/D3418)	~307°F
Vicat softening B	~323°F
Heat deflection @ 1.8 MPa	~290°F
Shrinkage @ 302°F (ASTM D1204)	~1.40%
Brittleness temperature (ASTM D746)	~–211°F
Density (ASTM D792)	~2.3 slug/ft³ class
Finish	Matte white flexible polycarbonate



Specifications are for guidance based on typical substrate data. Confirm final specs with Signs Fast & Affordable when ordering. High-resolution print-ready artwork recommended. Contour / custom cut paths must be reviewed on design-service jobs.