

BACKLITE

0.01" Polycarbonate
Flexible, Matte White Finish

Common Uses
Sign Frames & Light Boxes

Environment
Indoor & Outdoor

Print Sides
Single-sided

Size Options
Custom Size

Technical Data >

TECHNICAL DATA SHEET

MECHANICAL

Tensile Strength

- @Yield (ASTM D882): psi | 8500
- Ultimate (ASTM D882): psi | 9000

Tensile Modulus (ASTM D882): psi | 300,000

Tensile Elongation at Break (ASTM D882): % | 100-150

Gardner Impact Strength at 0.03 in (0.75 mm) (ASTM D3029): ft-lb | 23

Tear Strength

- Initiation (ASTM D1004): lb/mil | 1.4-1.8
- Propagation (ASTM D1922): g/mil | 30-55

Puncture Resistance (Dynatup) (ASTM D3763): ft-lb | g

Fold Endurance (MT)

- 0.010 inch (0.25 mm) (ASTM D2176-69): double folds | 130
- 0.020 inch (0.50 mm) (ASTM D2176-69): double folds | 20

THERMAL

Coefficient of Thermal Conductivity (ASTM D5470): Btu/hr/ft^2/° F/in | 1.35

Coefficient of Thermal Expansion (ASTM E831): (X 10 ^-5/° F) | 3.2

Specific Heat @ 40° F (4° C) (ASTM E1269): Btu/lb/° F | 0.3

Glass Transition Temperature (ASTM D3417/D3418): ° F | 307

Vicat Softening Temperature, B (ASTM 1525-00 Modified): ° F | 323

Heat Deflection Temp. by TMA at 1.8 MPa: ° F | 290

Shrinkage at 302° F (150° C) (ASTM D1204): % | 1.40%

Brittleness Temperature (ASTM D746): ° F | -211

PHYSICAL

Density (ASTM D792): slug/ft^3 | 2.3

Surface Roughness (RMS) (ASME B46-01): 55

IDX TEXAS

www.idxde.com | 903-660-9094 | engraveus@idxtx.com

IDX DESIGN & ENGRAVING | FLINT, TX