

OPTIX[®] 95 LD



Your LED Lighting Solution.

OPTIX[®] 95 LD provides a soft white satin appearance for a variety of lighting and signage applications. It combines high efficiency with excellent diffusing properties making it an excellent choice for LED lighting applications, backlit signage and illuminated POP displays. OPTIX[®] 95 LD is easily fabricated by forming, bending, routing, laser cutting or engraving.

OPTIX[®] 95 LD

- Unsurpassed hot spot hiding power
- Superior diffusion properties while maintaining a high light transmission
- Produced with a specially formulated acrylic polymer that provides an attractive textured surface on one side
- Soft satin appearance
- Available in clear and white
- Thickness range from .060" to .236"

Contact Plaskolite for additional information.

PLASKOLITE, INC.

P.O. Box 1497 • Columbus, Ohio 43216
614-294-3281 • Fax: 877-538-0754
E-mail: plaskolite@plaskolite.com • www.plaskolite.com

OPTIX[®] 95 LD — Sheet Properties

Physical Properties	ASTM Test Method	Units	Values
Specific Gravity	D-792		1.19
Optical Refractive Index	D-542		1.49
Sound Transmission	E 90 E 413	db	27
Water Absorption	D-570	% By wt	0.4
Shrinkage	D-702	%	<5

Mechanical Properties			
Tensile Strength		psi	11,030
Tensile Elongation – Max.	D-638	%	5.8
Tensile Modulus of Elasticity		psi	490,000
Flexural Strength		psi	17,000
Flexural Modulus of Elasticity	D-790	psi	490,000
Izod Impact Strength – Molded Notch		ft-lb/in Notch	0.4
Izod Impact Strength – Milled Notch	D-256	ft-lb/in Notch	0.28
Tensile Impact Strength	D-1822	ft-lb/in ²	20
Abrasion Resistance			
Change in Haze			
0 cycles	D-1044	Haze, %	0
10 cycles			11.2
50 cycles			24.0
200 cycles			24.9
Rockwell Hardness	D-785		M-95

These suggestions and data are based on information we believe to be reliable. They are offered in good faith, but without guarantee, as conditions and methods of use are beyond our control. We recommend that the prospective user determine the suitability of our materials and suggestions before adopting them on a commercial scale.

Thermal Properties	ASTM Test Method	Units	Values
Maximum Recommended Continuous Service Temperature		°F	170-190
Softening Temperature		°F	210-220
Melting Temperature		°F	300-315
Deflection Temperature 264 psi 66 psi	D-648	°F	203 207
Coefficient of Thermal Expansion – 30 to 30°C	D-696	in/(in-°F) x 10 ⁻⁵	3.0
Thermal Conductivity	C-177	BTU-ft/(hr-ft ² -°F)	0.075
Flammability (Burning Rate)	D-635	In/minute	1.019
Smoke Density Rating	D-2843	%	3.4
Self-Ignition Temperature	D-1929	°F	833
Flame Spread Index	E-84		115
Smoke Developed Index			550

Chemical			
Resistance to Stress – Critical Crazing Stress to:			
Isopropyl Alcohol	ARTC modification of MIL-P-6997	psi	900
Lacquer Thinner		psi	500
Toluene		psi	1,300
Solvesso 100		psi	1,600