

Product Data - OPTIX LD Acrylic



OPTIX LD acrylic sheet is available in a wide variety of colors with superior light diffusion properties. Visible hot spots and luminance fluctuations are eliminated without affecting the light transmission properties. This continuously processed, high quality acrylic sheet delivers impact and weather resistance, and is ideal for almost any type of fabrication or glazing.

APPLICATIONS

Pop Displays, Skylights, Sunrooms And Signs

Typical Properties*

Property	Test Method	Units	Values
PHYSICAL			
Specific Gravity/Relative Density	ASTM D792	–	1.19
Light Transmission, 7328 White LD	ASTM D1003	%	28
Water Absorption	ASTM D570	%	0.4
MECHANICAL			
Tensile Strength	ASTM D638	psi	11,030
Tensile Modulus of Elasticity	ASTM D638	psi	490,000
Flexural Strength	ASTM D790	psi	17,000
Izod Impact Strength – Notched	ASTM D256	ft-lb/in	0.4
Rockwell Hardness	ASTM D785	–	M-95
THERMAL			
Maximum Recommended Continuous Service Temperature	–	°F	170-190
Deflection Temperature @ 264 psi (1.8 MPa)	ASTM D648	°F	203
Deflection Temperature @ 66 psi (0.45 MPa)	ASTM D648	°F	207
Coefficient of Thermal Expansion	ASTM D696	in/in/°F	3.0x10 ⁻⁵
Flammability (Burning Rate)	ASTM D635	in/minute	1.0
Smoke Density Rating	ASTM D2843	%	3.4
Self-Ignition Temperature	ASTM D1929	°F	833

*Typical properties are not intended for specification purposes

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