

IMPACT-MODIFIED ACRYLIC LIGHTING SHEET AND FILM

OPTIX impact-modified acrylic lighting products, with higher impact strengths than general-purpose acrylic, also have the superior optical properties necessary for high-quality lighting systems. They are easy to fabricate and form, with exceptional UV stability, for many interior and exterior applications.

They are available in a broad range of gauges and sizes.

TYPICAL PROPERTIES

PROPERTY	TEST METHOD	UNITS	VALUES
PHYSICAL			
Specific Gravity	ASTM D792	-	1.15-1.18
Water Absorption	ASTM D570	%	0.3-0.4
Mold Shrinkage	ASTM D955	%	0.3-0.6
MECHANICAL			
Tensile Strength	ASTM D638	psi	5,600-9,000
Tensile Modulus of Elasticity	ASTM D638	psi	250,000-376,000
Flexural Strength	ASTM D790	psi	8,300-13,700
Izod Impact Strength - Notch	ASTM D256	Ft-lb./in	0.6-1.1
Rockwell Hardness	ASTM D785	-	M 46-78
THERMAL			
Maximum Recommended Continuous Service Temperature	-	°F	170-190
Deflection Temperature @ 264 psi (1.8 MPa)	ASTM D648	°F	185-198
Coefficient of Linear Thermal Expansion	ASTM D696	in/in/°F	3.5-5.0 x 10 ⁻⁵
Flammability	UL 94	-	HB

Note: Acrylic lighting products include products with transparent, translucent, patterned and frosted appearance

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 determines the suitability of our materials and suggestions before adopting them on a commercial scale.

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