

OPTIX® Frost LED Acrylic Sheet Properties

Physical Properties	ASTM Test Method	Units	Values
Specific Gravity	D-792		1.19
Sound Transmission	E 90 E 413	db	27
Water Absorption	D-570	% By wt	0.4

Mechanical Properties			
Tensile Strength	D-638	psi	11,030
Tensile Elongation – Max.		%	5.8
Tensile Modulus of Elasticity		psi	490,000
Flexural Strength	D-790	psi	17,000
Flexural Modulus of Elasticity		psi	490,000
Izod Impact Strength – Molded Notch	D-256	ft-lb/in Notch	0.4
Izod Impact Strength – Milled Notch		ft-lb/in Notch	0.28
Tensile Impact Strength	D-1822	ft-lb/in ²	20
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 Smoke Developed Index	E-84		115 550

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