

ACRYLITE®
Clear Acrylic

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PHYSICAL PROPERTIES

ACRYLITE® acrylic sheet is the highest quality continuously manufactured sheet on the market today. Using a proprietary, innovative process, ACRYLITE® sheet products are economical, provide tight thickness tolerance, high optical characteristics and low stress levels.

Property	Method	Unit	Nominal Value*
Density	ASTM D-792	g/cm ³	1.19
Tensile strength at yield	ASTM D-638	psi	10,300
Tensile modulus	ASTM D-638	psi	400,000
Elongation at yield	ASTM D-638	%	4.5
Elongation at break	ASTM D-638	%	n/a
Tensile impact	DIN 53448	ft-lbs/in ²	n/a
Flexural modulus	ASTM D-790	psi	480,000
IZOD impact notched	ASTM D-2240	ft-lbs/in ²	0.4
Hardness	ASTM D-2583	Barcol	48
Melting point	ASTM D-3417	°F	n/a
Coefficient of linear thermal expansion	ASTM D-696	in/in/°F	2.8 x 10 ⁻⁵
Heat deflection temperature, 264 psi	ASTM D-648	°F	195
Vicat softening temperature	ASTM D-1525	°F	230
Max. operating temp.		°F	160
Volume Resistivity	ASTM D-257	Ohm-cm	>10 ¹⁶
Surface Resistivity	ASTM D-257	Ohm	>10 ¹⁵
Water absorption 24hrs.	ASTM D-570	%	0.2
Smoke density, 0.125"	ASTM D-2843	%	5.0 - 10.0
Self ignition temperature	ASTM D-1929	°F	830
Flammability 0.125"	ASTM D-635	in/min.	1
Light transmission, Clear	ASTM D-1003	%	92
Light transmission, Sign White 020-4	ASTM D-1003	%	37
Light transmission, Bronze 126-4	ASTM D-1003	%	45
Haze	ASTM D-1003	%	1.6
Refractive index	ASTM D-542		1.49

*All values are determined on specimens prepared according to ASTM 1248-84 "Standard Specifications for Polyethylene Plastic Molding and Extrusion Materials". Nominal values should not be interpreted as specifications.

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