

# SOLID POLYCARBONATE PRISMATIC KLAR

## 1. PRODUCT DESCRIPTION

Klar Prismatic Compact Polycarbonate sheets are manufactured using state-of-the-art extrusion technology. They are produced with 100% virgin polycarbonate resin and feature two co-extruded ultraviolet (UV) protective layers that act against solar radiation.

## 2. PHYSICAL AND MECHANICAL PROPERTIES

General properties	Method	Units	Klar Prismatic Polycarbonate 0.118"
Density	ISO 1183	g/cm <sup>3</sup>	1.19
Water Absorption in Plastics (24hr)	ISO 62	%	0.11
Mechanics			
Tensile strength performance	ISO 527	MPa	38.2
Stretching in performance	ISO 527	%	6
Elongation at break	ISO 527	MPa	75.5
Traction module	ISO 527	MPa	2286
Flexural modulus	ISO 178	MPa	2510
Rockwell hardness	ASTM D785	HRL	96.7
Operating temperature range		F°	-40 to 248
Optics			
Light transmission (0.118")	ASTM D1003	%	70
Thermal			
Thermal conductivity	ASTM C177	W/m.K	0.21
Softening temperature VICAT(50N)	ISO 306	F°	293
Linear thermal expansion	ASTM D696	°F <sup>-1</sup>	32.61 x 10 <sup>-6</sup>