



GP PolyCarbonate- High Quality Polycarbonate Solid sheets

General Properties	Method	Units	Value
Density	ASTM D 792	g/cm ³	1.2
Light transmission (Depending on thickness)	ASTM D 1003	%	81 - 90
Refractive index	ASTM D 542		1,585
Mechanical			
Tensile Strength at yield	ASTM D 638	PSI	9,300
Tensile Modulus	ASTM D 638	PSI	335,620
Elongation at break	ASTM D 638	%	>100
Flexural Strength	ASTM D 790	PSI	13,450
Flexural Modulus	ASTM D 790	PSI	338,690
Rockwell hardness	ASTM D 785	M-scale	70
Impact resistant - Izod Notched @0.125"	ASTM D 256	ft.lbs/in	18
Thermal			
Heat Deflection Temperature under load of 264 PSI	ASTM D 648	°F	270
Vicat softening temp (50N)	ASTM D 1525	°F	290
Coefficient of Thermal conductivity	ASTM D 177	BTU-in/hr-ft ² • °F	0.2
Coefficient of linear thermal expansion - parallel	ASTM D 696	in/in °F	3.8 • 10 ⁵
Flammability**	UL-94	class	HB to V0
Electrical			
Volume Resistivity	ASTM D 257	Ω • cm	8.2 • 10 ¹⁶
Surface Resistivity, dry	ASTM D 257	Ω	6 • 10 ¹⁵
Dissipation Factor 1Mhz	ASTM D 150		0.009
Dissipation Factor 100Hz	ASTM D 150		0.0006

* **10 Year Limited Guarantee** GP Polycarbonate sheets are guaranteed for 10 years for light transmission and stability of mechanical properties as detailed in our guarantee.

** **Flammability** for GP Polycarbonate Standard Grade: UL 94 HB (0.03" to 0.39") - F Grade: HL 94 V0 (from 0.08" to 0.5")