

PC - Polycarbonate



A strong and tough thermoplastic resin. Strong impact resistance.
Strong fatigue resistance. Extended long-term outdoor aging resistance.
Excellent insulation usage and useful resistance to weak acids/alkalis.
Self extinguishing polymer properties.

Continuous Use Temperature

105°C/221°F

Flame Retardant Grade

UL94 V-2

Polycarbonate (PC) Properties

Property	Nominal Value	Unit	Test Method
Melt Flow Rate (300°C/1.2 kg)	10	g/10 min	ASTM D 1238
Density	1.20	g/cm ³	ASTM D 792
Mold Shrinkage	0.005-0.007	mm/mm	ASTM D 955
Water Absorption (24 hrs, 23°C)	0.15	%	ASTM D 570
Tensile Yield Strength	60	MPa	ASTM D 638
Ultimate Tensile Strength	71	MPa	ASTM D 638
Flexural Modulus	2,410	MPa	ASTM D 790
Notched Izod Impact @ 23°C	900	J/m	ASTM D 256
Deflection Temperature @ 1.8 MPa	128	°C	ASTM D 648
(annealed)			
Vicat Softening Point	149	°C	ASTM D 1525
Volume Resistivity	2.0E+17	Ohm-cm	ASTM D 257
Dielectric Strength	17	kV/mm	ASTM D 149



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