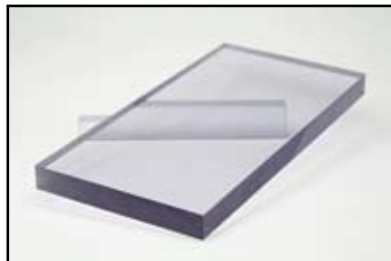


PC1000® POLYCARBONATE

Polycarbonate, Unfilled, Machine Grade, Extruded



** PC 1000® is the registered trademark of

QUADRANT

PRODUCT CAPABILITIES:

- Rod : 6mm - 50mm
- Sheet : 6mm - 50mm

ADVANTAGES:

- Excellent Impact Resistance, Toughness And Elongation Properties Elasticity.
- The Material Has A 290°F (145°C)
- Transparent
- Good Dielectric Properties
- Economical Thermal Performance

PRODUCT COLORS:

- Natural (Clear, Translucent)

APPLICATIONS INCLUDE:

- Insulators
- Sight Glasses
- Manifolds

GENERAL PROPERTIES	ASTM or UL Test	PC 1000® POLYCARBONATE Typical Values
PHYSICAL		
Specific Gravity (g/cm ³)	D792	1.20
Water Absorption, 24 hrs (%)	D570	0.20
MECHANICAL		
Tensile Strength (psi)	D638	10,500
Tensile Modulus (psi)	D638	320,000
Tensile Elongation at Break (%)	D638	100
Flexural Strength (psi)	D790	13,000
Flexural Modulus (psi)	D790	350,000
Compressive Strength (psi)	D695	9,200
Compressive Modulus (psi)	D695	300,000
Hardness, Rockwell	D785	M75
IZOD Notched Impact (ft-lb/in)	D256	1.5
THERMAL		
Coeff. of Thermal Expansion (x 10 ⁻⁵ in./in./°F)	E831	3.9
Heat Deflection Temp (°F / °C) @ 264 psi	D648	190 / 143
Glass Transition Temp (°F / °C)	D3418	293 / 145
Max Operating Temp (°F / °C)	—	250 / 121
Thermal Conductivity (BTU-in/ft ² -hr-°F)	F433	1.3
Flammability Rating	UL94	V-2
ELECTRICAL		
Dielectric Strength (V/mil) short time	D149	400
Dielectric Constant at 106 Hz	D150	3.17
Dissipation Factor at 106 Hz	D150	0.0009
Surface Resistivity (ohm/sq) at 50% RH	EOS/ESD S11.11	>10 ¹³

NOTE: The information contained here in is typical values intended for reference only. They should NOT be used as a basis for design specifications or quality control.