PC

Polycarbonate (CNC) has excellent impact strength and good temperature resistance. Suitable for outdoor applications. Can be colored or semi-transparent.

Mechanical properties

Ultimate tensile strength	60 - 72.4 MPa
Yield strength	59- 70 MPa
Young's modulus (modulus of elasticity)	2 - 2.44 GPa
Elongation at break	50 - 120 %
Hardness	17.7 - 21.7 HV

Physical properties

UV resistance	Fair

Thermal properties

Maximum service temperature	101 - 144 °C
Thermal expansion coefficent	120 - 137 10^-6/ºC
Thermal conductivity	0.189 - 0.218 W/(m·°C)

Electrical properties

ESD Safety	No

Common applications

Connectors	
Power distribution (covers and housings)	
Battery boxes	

Polycarbonate CNC Machining Applications & Parts

Polycarbonate is valued for its exceptional impact strength, optical clarity, and good heat resistance, making it a prime choice for transparent prototypes, protective components, and functional parts.

Typical Parts We Machine from PC:

- **Protective Components:** Safety Shields, Machine Guards, Helmet Visors
- **Optical & Enclosures:** Light Covers, Instrument Windows, Transparent Housings
- **Electrical & Automotive:** Connector Housings, Lens Mounts, Interior Trim Components

Our Machining Advantage:

We specialize in machining polycarbonate to achieve optical clarity without internal stress or clouding, and we offer polishing services for crystal-clear finishes when required.

Get an Instant Quote for your custom Polycarbonate parts today.