

Polycarbonate

PC, Polycarb

Polygal[®], Lexan[®]
Makrolon[®], MakrocLEAR[®]

Available in Sheet, Twinwall, Multi-wall
Rod, Tube, Bases, End Caps, Divides



Polycarbonate Overview

Polycarbonate is a versatile, tough plastic used for a variety of applications, from bulletproof windows to compact disks (CDs). It comes in transparent and opaque varieties. The main advantage of polycarbonate over other types of plastic is unbeatable strength combined with light weight. Polycarbonate is just one-third the weight of acrylic, or one-sixth as heavy as glass, and is nearly unbreakable. Bullet-resistant windows and enclosures as seen inside banks are often made of polycarbonate.

Polycarbonate Applications

- Compact Disks, DVDs, and Blue-ray Discs
- Bullet Resistant "Glass"
- Lenses (including eyewear)
- High temperature and pressure windows
- Face shields
- Industrial equipment and housing components
- Medical equipment components
- Instrument components
- Electrical insulators and connectors
- Aircraft & Missile components
- Portholes in pressure chambers
- Jet pump impellers and diffusers
- Automotive parts
- Card guides
- Assembly line cogs

Polycarbonate Features

- Virtually unbreakable with extreme impact resistance
- High dielectric strength
- Easily machinable
- Transparent up to 2" thick
- Wide temperature operating range (-40F to 280F)
- Lightweight

Polycarbonate Specifications

Friction Coefficient	0.31
Tensile Strength	9500 - 10500 PSI
Flexural Strength	12000 - 13500 PSI
Impact Strength, Notched Izod	14 Ft-lbs/Inch
Hardness (Rockwell & Burnell)	M70, R118
Deflection Temperature (264 PSI)	270F
Specific Gravity	1.2
Melting Point	512F
Elongation	100%

*Specs accurate at 73°F

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