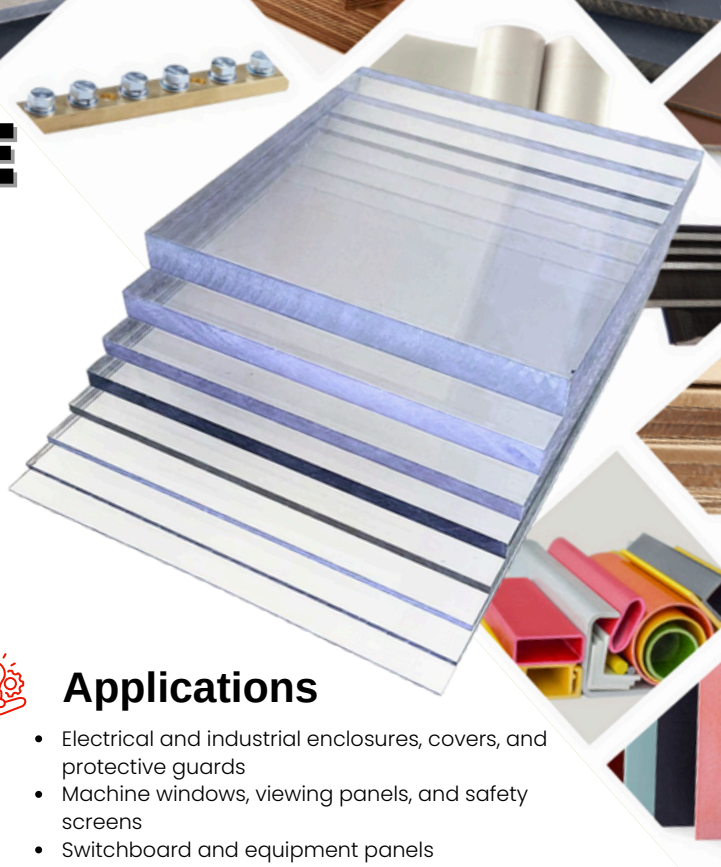
POLYCARBONATE

(BISPHENOL-A POLYCARBONATE)

HIGH-PERFORMANCE ENGINEERING PLASTIC

TOUGH | LIGHT | TRANSPARENT



Key Features

- Exceptional impact resistance — virtually unbreakable under normal service
- High optical clarity and light transmission
- Excellent dimensional stability and stiffness
- Good heat resistance with high glass transition temperature
- Lightweight alternative to glass and acrylic
- Easy to machine, cut, drill, and thermoform
- Low moisture absorption and good weatherability (UV grades available)
- High electrical insulation properties
- Good resistance to oils, greases, and many industrial fluids
- Available in clear, tinted, and specialty coated grades

Applications

- Electrical and industrial enclosures, covers, and protective guards
- Machine windows, viewing panels, and safety screens
- Switchboard and equipment panels
- Light diffusers, lenses, and optical components
- Shields, barriers, and impact-resistant protective panels
- Medical and laboratory equipment housings
- Automotive interior components and glazing substitutes
- Transport, rail, and aviation cabin components
- Thermoformed housings, domes, and formed parts
- General industrial fabrication and CNC-machined components

Product Details

Property	Value
Material	Engineering-grade polycarbonate thermoplastic
Thickness Range	1.0 mm to 12 mm standard; heavier gauges available
Standard Colour	Clear (tinted, smoked, and coloured grades available)
Surface Finish	Smooth, high-clarity surface with protective masking film
Machining	CNC compatible; suitable for drilling, routing, shaping

Polycarbonate is a high-performance engineered thermoplastic known for its exceptional impact resistance, optical clarity, and dimensional stability. It delivers a rare combination of strength, toughness, and heat resistance, making it a preferred material for demanding industrial, electrical, and protective applications. Lightweight yet extremely durable, polycarbonate maintains performance under mechanical load, thermal variation, and repeated fabrication processes.

MISCO Australia offers in-house CNC machining to tailor sheets to your specifications:

- Accepted file formats: DXF, DWG, PDF
- Physical sample reverse engineering available
- Cut, drilled, slotted, profiled, and deburred parts.
- Batch or one-off production available on request.

- Switchboard Builders
- Transformer Manufacturing
- Power Generation
- Rail Infrastructure
- Renewable Energy
- Energy
- Industrial Machinery
- Defence
- Manufacturing
- Oil and Gas
- Automotive & Aerospace
- Electrical and Electronics

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