

POLYCARBONATE Product Information

Product Description

Premium Quality Polycarbonate rod, sheet and tube, is an engineering SEE THROUGH material.

Tough, easy to handle and easily fabricated to almost any shape, Polycarbonate is unique for its impact resistance and shock load resistance. Polycarbonate is light weight and well proven in situations that require a UV stabilized SEE THROUGH product in Precision Engineering, Architectural Glazing, Process Machine Guarding and General Manufacturing and Industrial Applications.

Applications

SAFETY

Safety barriers, Machine Guards & Machine enclosures

VIEWING PANELS

Noise control enclosures, Switchgear cabinets, Scientific instrumentation, Forklifts, Duct work sight panels, Earth moving machines.

GLAZING

Bus shelters, Sports stadiums, Vandal protection, Signage.

MACHINED PARTS

Precision engineering components, Insulating parts for Electrical engineering, Level indicators, Medical & Pharmaceutical devices, Components in contact with food.

Delivery Program

ROD & TUBE

Rod Diameters ranging from 6mm to 200mm

Tube O.D ranging from 6mm to 1.00mm Wall thickness at 1.5mm

SHEET

Thicknesses ranging 1mm to 12mm Sheet Sizes:

2440 x 1200

2440 x 1830

2000 x 1000

3300 x 1320

Physical Properties

Specific Gravity <small>DIN 53479, Units g/cm³</small>	1.2
Crystalline Melting Range <small>Units °C</small>	150
Tensile Stress at Yield <small>DIN 53455, Units N/mm²</small>	65
Tensile Stress at Break <small>DIN 53455, Units N/mm²</small>	-
Elongation at Break <small>DIN 53455, Units %</small>	>50
Ball Indentation Hardness <small>DIN 53456, Units N/mm²</small>	120
Shore Hardness <small>DIN 53505</small>	
Notched Impact Strength <small>DIN 53453, Units kJ/m²</small>	Charpy 20 Izod 9
Co-efficient of Linear Thermal Expansion <small>Units m/(m.k) Average value between:</small>	23° - 60°C 65 x 10 ⁻⁶ 23° - 100°C 65 x 10 ⁻⁶
Dielectric Strength <small>DIN 53481, Units KV/mm</small>	28
Surface Resistivity <small>DIN 53482, unit Ω, (measured on 1 mm thick material)</small>	10 ¹⁸
Volume Resistivity <small>DIN 53482, unit Ω cm, (measured on a 0.2mm thick sheet)</small>	10 ¹⁷

- CNC
- Designing
- 3D Printing
- Consulting
- Engineering
- 3D Scanning

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