



Polycarbonate is the toughest transparent sheet available today. Together with a combination of balanced properties it is an ideal choice for signage, fabrication, security and architectural applications. The range of Polycarbonates available includes abrasion resistant with hard-coat surface treatment, UV coating.

Often referred to as Lexan, polycarb is premium quality used in the fabrication of guarding in safety guarding and high impact applications.

The properties of polycarbonate Sheets, make it tough, easy to handle, easily fabricated and formed, and easy to machine into parts or panels.

Polycarbonate is unique for its impact resistance and its shock-load resistance. It is literally sledgehammer proof. Polycarbonate sheet is clearly the right choice for glazing where there is potential for glass breakage. These applications include schools, public buildings, transportation centres and in areas where high traffic and vandalism is prevalent.

Polycarbonate is stocked in a wide range of sheet sizes and gauges

GENERAL			
Density	ISO1183	1.20	g/cm ³
Water Absorption	ISO62	0.2	%
MECHANICAL			
Tensile Strength	ISO527-2	60	MPa
Elongation at Break	ISO527-2	80	%
Tensile Modulus	ISO527-2	2300	MPa
Flexural Strength	ISO178	90	MPa
Flexural Modulus	ISO178	2300	MPa
Charpy Impact Strength, Notched	ISO179-1	40	kJ/m ²
Izod Impact Strength, Notched	ISO180/1A	70	kJ/m ²
THERMAL			
Vicat Softening Temperature, B50, Annealed	ISO306	135	°C
Heat Distortion Temperature, 1.8MPa	ISO75	125	°C
Linear Thermal Expansion	DIN53752	7	/°K x 10 ⁻⁵
Continuous Service Temperature	-	110	°C
Maximum Short Term Temperature	-	120	°C
Degradation Temperature	-	> 280	°C
OPTICAL			
Light Transmission Clear (3mm)	520nm	88	%
Light Transmission Grey (3mm)	520nm	50	%
Refractive Index	DIN5036-3	1.59	-

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