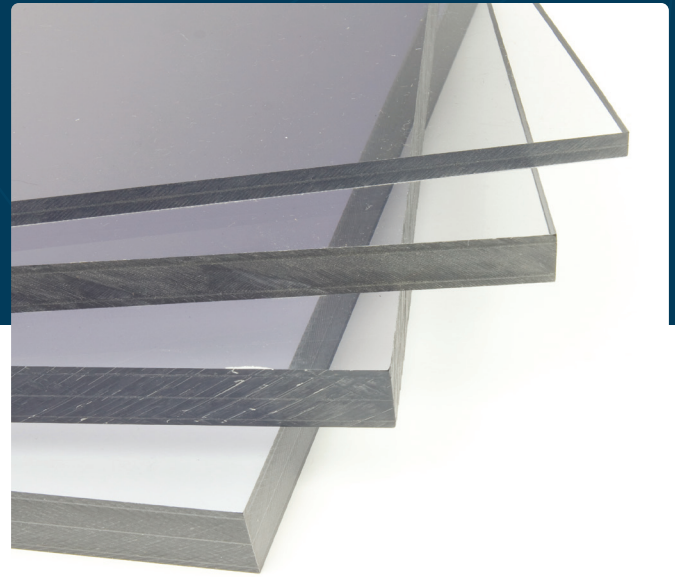




CLEAR POLYCARBONATE

MATERIAL SOLUTIONS



Your Plastic Experts

Piedmont Plastics is a wholesale distributor of performance plastics. With more than 50 locations across North America, we supply plastic sheet, rod, tube, and film to a wide range of industries, including safety, construction, industrial, and signage.

Benefits

Polycarbonate combines exceptional impact strength with excellent optical clarity, making it an ideal choice for demanding applications.

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|--|---|
| • Good optical clarity | • 250x more impact-resistant than glass |
| • Strong and stiff | • Great durability |
| • Easy to thermoform, fabricate, and machine | • Good thermal stability |
| • Cold bendable | • Chemically resistant |
| • Good electrical insulation | • Lightweight |

Common Applications

- | | |
|--|---------------------------|
| • Machine Guards | • Security Glazing |
| • Signage | • Architectural Glazing |
| • Electrical Enclosure Panels & Covers | • Skylights & Canopies |
| • Face Shields | • Windows & Windshields |
| | • Riot and Safety Shields |

Polycarbonate Options & Grades

- | | |
|----------------------|--------------------|
| • General Purpose | • Bullet-Resistant |
| • Abrasion-Resistant | • UV-Coated |
| • Anti-Static (ESD) | • Flame Retardant |

	UNITS	ASTM	POLYCARBONATE	POLYCARBONATE 20% GLASS-FILLED
Tensile strength	psi	D638	9,500	16,000
Flexural modulus	psi	D790	345,000	800,000
Izod impact (notched)	ft-lbs/in of notch	D256	12.0 - 16.0	2.0
Heat deflection temp @ 264 psi	°F	D648	270	295
Maximum continuous service temperature in air	°F		240	248
Water absorption (immersion 24 hrs)	%	D570	0.15	0.16
Coefficient of linear thermal expansion	in/in/°Fx10 ⁻⁵	D696	3.8	1.5



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