P Clear Polycarbonate Tubing

Description: Made from FDA approved materials. UL rated. Clear as glass. High tensile strength over wide temperature range. High impact strength—even at low temperatures. Excellent high temperature resistance. Flame-resistant. Self-extinguishing. Can be machined, drilled, cut and sawed. Easily joined with solvents or adhesives.

Physical Properties:

Property Specific Gravity Refractive index at 25°C Rockwell Hardness	ASTM Method D 792 — D 785	<i>Excelon PC</i> 1.20 1.586 Scale M 73-78 Scale R 112-125
Abrasion resistance, Taber abraser with CS-17 wheel Impact strength. notched izod,	D 1044	10 mg/1000 cycles
1/8" specimen, ft-lb/in of notched Impact strength. unnotched izod,	D 256	15-17
1/8" specimen, ft-lb/in Tensile-impact, ftlbs/in ² Tensile-yield strength, psi Tensile-ultimate strength, psi Tensile-modulus, psi Elongation Compressive strength, psi Compressive modulus, psi Flexural strength, psi Flexural modulus, psi Shear-yield strength, psi Shear-ultimate strength, psi Light transmission (1/8 inch thick disc) Water-vapor permeability cm ² /STP/mm/sec/cm ² /cm HG Modulus of rigidity, psi Deformation under load, 4,0000 psi 77°F 158°F	D 256 D 1822 D 638 D 638 D 638 D 638 D 695 D 695 D 790 D 695 D 732 D 732 	>60 250 7,000-9,000 9,000-11,500 300,000-345,000 100-130 12,500 345,000 12,000-12,700 320,000-350,000 6,000 10,000 88-90% 14.0 x 10 ¹³ 116,000 0.2% 0.3%
Water absorption, 24 hour submersion equilibrium 73°F	D 570	0.15% 0.35%

For the clarity of glass and the impact resistance of metal, specify Excelon™ PC tubing. Excelon PC provides extraordinary design and fabrication opportunities. Excelon PC can be ordered from stock in 1/4" - 5 3/4" I.D., in 8 ft. lengths. Custom orders are also available in sizes up to 8" O.D. and in a variety of wall thicknesses. Specific formulations are available for tints and colors with performance additives for ultraviolet stabilization, flame retardant (94VO) and radiation resistance.

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