



Impact-Resistant Polycarbonate Round Tube

6" OD, 5-3/4" ID, Clear

8585K58



Material	Polycarbonate Plastic
Shape	Round Tube
Texture	Smooth
Color	Clear
Clarity	Clear
Light Transmission	88%
OD	6"
OD Tolerance	-0.030" to 0.030"
ID	5 3/4"
ID Tolerance	-0.030" to 0.030"
Wall Thickness	1/8"
Wall Thickness Tolerance	-0.010" to +0.010"
Tolerance Rating	Standard
Hardness	Rockwell R118
Hardness Rating	Hard
For Use Outdoors	No
Temperature Range	-40° to 200° F
Impact Strength	12-18 ft.-lbs./in.
Impact Strength Rating	Excellent
Tensile Strength	8,900-9,500 psi
Tensile Strength Rating	Good
Chemical Resistance	
Excellent	Bleach, Diesel Fuel, Gasoline, Hydrogen Peroxide, Isopropyl Alcohol, Phosphoric Acid, Water
Moderate	Acetic Acid, Coolant, Fuel Oil, Nitric Acid
Not Recommended	Acetone, Hydrochloric Acid, Methanol, Methyl Ethyl Ketone (MEK), Sodium Hydroxide, Sulfuric Acid
Not Rated	Chlorine, Heating Oil, Hydraulic Fluid, Kerosene, Lacquer Solvents, Mineral Oil, Synthetic Oil, Vegetable Oil
Fabrication	Extruded
Density	0.043 lbs./cu. in.

Flexural Modulus	320,000-350,000 psi
Flexibility	Semi-Rigid
Coefficient of Friction	Not Rated
Friction Rating	Not Rated
Dielectric Strength	380 V/mil
Electrical Insulation Rating	Good
Water Absorption	0.15-0.2%
Water Absorption Rating	Good
Coefficient of Thermal Expansion	$3.7 \text{ to } 3.8 \times 10^{-5} \text{ in./in./}^{\circ}\text{F}$
Thermal Stability	Good
Comparable To	Hygard, Hyzod, Lexan, Lexgard, Makrolon, Margard, Tuffak, Zelux
Performance Properties	Clear, Easy to Thermoform, Electrical Insulator, Food Contact, High Strength, Impact Resistant, Low Thermal Expansion, Low Water Absorption, Multipurpose
For Use With	Bleach, Diesel Fuel, Gasoline, Hydrogen Peroxide, Isopropyl Alcohol, Phosphoric Acid, Water
Specifications Met	Made of FDA Listed Material, UL 94HB
Warning Message	Physical and mechanical properties are not guaranteed. They are intended only as a basis for comparison and not for design purposes.
RoHS	RoHS 3 (2015/863/EU) compliant

Comparable to Lexan, Hyzod, Tuffak, and Makrolon, these polycarbonate tubes are half the weight of glass and maintain excellent impact resistance across a wide temperature range. Use them to make instrument gauge covers and display racks.