



Polycarbonate Tube and Rod

In stock and cut a wide selection of Clear Polycarbonate Tubes from 6.3mm OD to 127mm OD. In addition, we can supply custom-made sizes for many types of projects. The PC tubes have excellent impact strength, a higher service temperature than PMMA (Acrylic), good UV protection and very good light transmission. The above features make the polycarbonate tube the ideal selection for indoor/outdoor use lighting, luminaries, high impact and security applications, sludge judges, sightglasses, instrument containers, and sampling devices. Polycarbonate Rod is stocked in a variety of diameters. It has a slightly cloudy finish.

Service Temperature: -60° to +120°

Clear Polycarbonate Tube - 3000mm Length

	Diameter		Wall
	OD	ID	mm
PC022.15	22.2 x 15.9		3.15
PC022.19	22.2 x 19		1.6
PC025.22	25.4 x 22.2		1.6
PC029.27	29.5 x 27.3		1.1
PC031.25	31.8 x 25.4		3.2
PC038.31	38.1 x 31.8		3.15

Clear Polycarbonate Tube - 2000mm Length

	Diameter		Wall
	OD	ID	mm
PCT006.3	6.3 x 3.2		1.55
PCT009.6	9.5 x 6.3		1.6
PCT012.9	12.7 x 9.5		1.6
PCT016.12	16.0 x 12.8		1.6
PCT019.15	19 x 15.8		1.6
PCT025.19	25.4 x 19.0		3.2
PCT028.25	28.7 x 25.5		1.6
PCT031.28	31.4 x 28.6		1.6
PCT038.31	38.0 x 31.8		3.15
PCT038.34	38.0 x 34.9		1.6
PCT045.38	45 x 38.1		3.45
PCT045.41	45.0 x 41.3		1.6
PCT050.44	50.0 x 44.5		2.7
PCT050.47	50.0 x 47.6		1.6
PCT057.50	57 x 50.8		3.1
PCT057.54	57 x 54		1.5
PCT063.60	63 x 60.3		1.35
PCT070.63	70 x 63.5		3.25
PCT075.69	75.0 x 69.9		2.5
PCT085.80	85 x 80		2.5
PCT101.97	101.6 x 97.0		2.3
PCT110.107	110 x 107		1.5
PCT127.123	127 x 123		2

Polycarbonate

Technical Information:

Information to be used as a guide only. It corresponds with our current knowledge and indicates possible applications. We cannot guarantee suitability for a specific application. Unless otherwise stated these values represent averages taken from injection moulded samples.

Properties	Unit	Test Method DIN ASTM	Result
MECHANICAL	-	-	-
Density	g/cm ³	53479	1.20
Tensile strength at yield	MPa	53455	65
Tensile strength at break	MPa	53455	-
Elongation at Break	%	53455	60-100
Modulus of elasticity in tension	MPa	53457	2200
Modulus of elasticity in flexure	MPa	53457	-
Ball indentation hardness	MPa	53456	100
Impact strength (Charpy)	KJ/m ²	53453	No break
Creep rupture strength after 1000 hours with static load	MPa	-	48
Time yield limit for 1% elongation after 1000 hours	MPa	-	18
Coefficient of friction against hardened and ground steel p=0,05 N/mm ² , v=0,6 m/s	-	-	0.52
Wear conditions as above	µm/km	-	22
THERMAL	-	-	-
Crystalline melting point	°C	53736	-
Glass transition temperature	°C	53736	145
Heat distortion temperature method A	°C	ISO 75	135
Heat distortion temperature method B	°C	ISO 75	140
Max. service temperature short term	°C	-	120
Max. service temperature long term	°C	-	120
Coefficient of thermal conductivity	W/(m K)	-	0.19
Specific heat	J/(g K)	-	1.2
Coefficient of thermal expansion	10 ⁻⁵ /K	-	6-7
ELECTRICAL	-	-	-
Dielectric constant at 10 (5) Hz	-	53483	3
Dielectric loss factor at 10(5) Hz	-	53483	0.006
Specific Volume Resistance	Ωcm	53482	10 (17)
Surface Resistance	Ω	53482	10 (15)
Dielectric strength 1mm	kV/mm	53481	27
Tracking resistance	-	53480	KA1
MISCELLANEOUS	-	-	-

Moisture Absorption: Equilibrium in standard atmosphere (23°C / 50% relative humidity)	%	53714	0.2
Water absorption at saturation at 23°C	%	53495	0.36
Resistance to hot water, washing soda	-	-	Not resistant
Flamability	-	UL 94	V2
Resistance to weathering	-	-	Not resistant



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