

PC

A true industrial thermoplastic, PC (polycarbonate) is widely used in automotive, aerospace, medical and many other applications. PC offers accuracy, durability and stability, creating strong parts that withstand functional testing.

PC's high tensile and flexural strength make it ideal for demanding prototyping needs, tooling and fixtures, and patterns for metal bending and composite work. Low-volume manufacturing and customization

become feasible, and testing provides more confidence. PC gives you parts for conceptual modeling, functional prototyping, manufacturing tools and end-use-parts.

Mechanical Properties	Test Method	Metric
Tensile Strength, (Type 1, 0.125", 0.2"/min)	ASTM D638	68 MPa
Tensile Modulus (Type 1, 0.125", 0.2"/min)	ASTM D638	2,300 MPa
Tensile Elongation at Break (Type 1, 0.125", 0.2"/min)	ASTM D638	5%
Flexural Modulus (Method 1, 0.05"/min)	ASTM D790	2,200 MPa
Flexural Strength	ASTM D790	104 MPa
IZOD, nothed (Method A, 23°C)	ASTM D256	53 J/m
IZOD un-notched, Method A, 23°C)	ASTM D256	320 J/m

Thermal Properties	Test Method	Metric
Heat Deflection (HDT) @ 66 psi	ASTM D648	138°C
Heat Deflection (HDT) @ 264 psi	ASTM D648	127°C
Vicat Softening Temperature	ASTM D1525	139°C
Glass Transition (Tg)	DMA (SSYS)	161°C
Melting Point	Not Applicable	Not Applicable