

PC (POLYCARBONATE)

Technical Data Sheet

Description	PC polycarbonate based filament designed specifically for desktop FDM/FFF 3D printing. PC offers accuracy, durability and stability, creating strong parts that withstand functional testing.
Key Features	It has superior mechanical properties to ABS and a number of other thermoplastics. Good chemical/solvent resistance
Applications	Prototyping, Manufacturing tools, and production parts.

1. Identification

Trade name	PC
Chemical name	Polycarbonate
Chemical family	Thermoplastic Polymers
Use	Monofilament for 3D printing

2. Filament Processing Parameters

Nozzle Temperature	250 ± 20°C
Bed Temperature	~ 80 °C

3. Material Properties - Tensile Test

Test Method: ASTM D638

Test Parameters	Results
Tensile Strength (MPa)	40
Elongation at Break (%)	4.8
Flexural Strength (MPa)	89
Flexural Modulus (MPa)	2006
Izod Impact Strength(J/m)	73
Compressive Strength (MPa)	69
Density(g/cm ³)	1.19