



Stat-Tech™ PC-10CF/000 BLK009

Polycarbonate

Key Characteristics

Product Description	
Carbon Fiber Reinforced Polycarbonate Compound	
General	
Material Status	• Commercial: Active
Regional Availability	• Asia Pacific
Filler / Reinforcement	• Carbon Fiber, 10% Filler by Weight
Appearance	• Black
Forms	• Pellets
Processing Method	• Injection Molding

Technical Properties ¹

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density / Specific Gravity	1.23	1.23	ASTM D792
Molding Shrinkage - Flow	2.0E-3 in/in	0.20 %	ASTM D955
Molding Shrinkage - Across Flow	2.5E-3 in/in	0.25 %	ASTM D955
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Modulus	870000 psi	6000 MPa	ASTM D638
Tensile Strength ²	16000 psi	110 MPa	ASTM D638
Tensile Elongation (Break)	3.5 %	3.5 %	ASTM D638
Flexural Modulus	725000 psi	5000 MPa	ASTM D790
Flexural Strength	23200 psi	160 MPa	ASTM D790
Impact	Typical Value (English)	Typical Value (SI)	Test Method
Notched Izod Impact 73°F (23°C), 0.126 in (3.20 mm), Injection Molded	1.3 ft·lb/in	70 J/m	ASTM D256A
Thermal	Typical Value (English)	Typical Value (SI)	Test Method
Deflection Temperature Under Load 264 psi (1.8 MPa), Unannealed	284 °F	140 °C	ASTM D648
Electrical	Typical Value (English)	Typical Value (SI)	Test Method
Surface Resistivity	< 100000 ohms/sq	< 100000 ohms/sq	ASTM D257
Flammability	Typical Value (English)	Typical Value (SI)	Test Method
Flame Rating			Internal Method
0.06 in (1.5 mm)	HB	HB	
0.12 in (3.0 mm)	HB	HB	

Processing Information

Injection	Typical Value (English)	Typical Value (SI)
Drying Temperature	230 to 266 °F	110 to 130 °C
Drying Time	4.0 to 6.0 hr	4.0 to 6.0 hr
Processing (Melt) Temp	536 to 590 °F	280 to 310 °C
Mold Temperature	176 to 248 °F	80 to 120 °C

Injection Notes

Injection Pressure: MED-HIGH
Hold Pressure: MED-HIGH
Screw Speed: MODERATE
Back Pressure: LOW

Notes

¹ Typical values are not to be construed as specifications.

² 0.20 in/min (5.0 mm/min)



Beyond Polymers.

Better Business Solutions.™