



# Stat-Tech™ PC-15CF/000 Black Polycarbonate

## Key Characteristics

Product Description	
Carbon Fiber Reinforced Polycarbonate Compound	
General	
Material Status	• Commercial: Active
Regional Availability	• Asia Pacific
Filler / Reinforcement	• Carbon Fiber, 15% Filler by Weight
Appearance	• Black
Forms	• Pellets
Processing Method	• Injection Molding

## Technical Properties <sup>1</sup>

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density / Specific Gravity	1.25	1.25	ASTM D792
Molding Shrinkage - Flow	1.0E-3 to 3.0E-3 in/in	0.10 to 0.30 %	Internal Method
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Strength	17400 psi	120 MPa	ASTM D638
Tensile Elongation (Break)	3.0 %	3.0 %	ASTM D638
Flexural Modulus	1.16E+6 psi	8000 MPa	ASTM D790
Flexural Strength	26100 psi	180 MPa	ASTM D790
Impact	Typical Value (English)	Typical Value (SI)	Test Method
Notched Izod Impact	1.5 ft-lb/in	80 J/m	ASTM D256
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	100 to 100000 ohms/sq	100 to 100000 ohms/sq	ASTM D257
Flammability	Typical Value (English)	Typical Value (SI)	Test Method
Flame Rating (0.12 in (3.0 mm))	V-0	V-0	Internal Method

## 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

<sup>1</sup> Typical values are not to be construed as specifications.