



# Stat-Tech™ PC-15CF-15GF/000 BK002

## Polycarbonate

### Key Characteristics

Product Description			
Carbon Fiber and Glass Fiber Reinforced, Impact Modified Polycarbonate Compound with Good Flowability and Mold Releasing Properties			
General			
Material Status	• Commercial: Active		
Regional Availability	• Asia Pacific		
Filler / Reinforcement	• Carbon Fiber, 15% Filler by Weight • Glass Fiber, 15% Filler by Weight		
Features	• Conductive • Good Impact Resistance • Good Flow • Good Thermal Stability		
Uses	• Business Equipment • Electrical/Electronic Applications • Housings		
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	1.36	1.36	ASTM D792
Molding Shrinkage (0.118 in (3.00 mm))	0.10 to 0.20 %	0.10 to 0.20 %	ISO 294-4
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Strength <sup>2</sup> (Yield)	20300 psi	140 MPa	ASTM D638
Tensile Elongation <sup>2</sup> (Break)	2.5 to 3.5 %	2.5 to 3.5 %	ASTM D638
Flexural Modulus	1.74E+6 psi	12000 MPa	ASTM D790
Flexural Strength	31200 psi	215 MPa	ASTM D790
Impact	Typical Value (English)	Typical Value (SI)	Test Method
Notched Izod Impact 73°F (23°C), 0.125 in (3.18 mm), Injection Molded	2.2 ft·lb/in	120 J/m	ASTM D256A
Thermal	Typical Value (English)	Typical Value (SI)	Test Method
Deflection Temperature Under Load 264 psi (1.8 MPa), Unannealed, 0.250 in (6.35 mm)	271 °F	133 °C	ASTM D648
Electrical	Typical Value (English)	Typical Value (SI)	Test Method
Surface Resistivity	1.0E+2 to 1.0E+5 ohms	1.0E+2 to 1.0E+5 ohms	ASTM D257

### Processing Information

Injection	Typical Value (English)	Typical Value (SI)
Drying Temperature	248 to 266 °F	120 to 130 °C
Drying Time	4.0 hr	4.0 hr
Processing (Melt) Temp	536 to 572 °F	280 to 300 °C
Mold Temperature	176 to 212 °F	80 to 100 °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.

<sup>2</sup> Type I, 0.20 in/min (5.1 mm/min)



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