



# Edgetek™ PC-15CF-15GF/000 NH FR V0 Black

## Polycarbonate

### Key Characteristics

Product Description			
Carbon Fiber and Glass Fiber Reinforced, Non-halogen Containing Flame Retardant Polycarbonate Compound			
General			
Material Status	• Commercial: Active		
Regional Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Filler / Reinforcement	• Glass\Carbon Fiber		
Features	• Flame Retardant	• Halogen Free	
Appearance	• Black		
Forms	• Pellets		

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

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density / Specific Gravity	1.38	1.38	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 Modulus <sup>2</sup>	1.67E+6 psi	11500 MPa	ASTM D638
Tensile Strength <sup>2</sup> (Break)	18900 psi	130 MPa	ASTM D638
Tensile Elongation <sup>2</sup> (Break)	2.0 to 3.0 %	2.0 to 3.0 %	ASTM D638
Flexural Modulus	1.74E+6 psi	12000 MPa	ASTM D790
Flexural Strength	23900 psi	165 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	1.9 ft·lb/in	100 J/m	ASTM D256A
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
Flammability	Typical Value (English)	Typical Value (SI)	Test Method
Flame Rating			UL 94
0.06 in (1.5 mm)	V-1	V-1	
0.12 in (3.0 mm)	V-0	V-0	

### 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 590 °F	280 to 310 °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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