



# Edgetek™ PC-20GF/000 Phi Gray 6

## Polycarbonate

### Key Characteristics

Product Description	
20% glass fiber reinforced polycarbonate compound	
General	
Material Status	• Commercial: Active
Regional Availability	• Asia Pacific
Filler / Reinforcement	• Glass Fiber, 20% Filler by Weight
RoHS Compliance	• RoHS Compliant
Appearance	• Grey
Forms	• Pellets
Processing Method	• Injection Molding

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

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Density / Specific Gravity	1.34	1.34	ASTM D792
Molding Shrinkage - Flow	2.0E-3 to 5.0E-3 in/in	0.20 to 0.50 %	ASTM D955
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Strength <sup>2</sup>			ASTM D638
73°F (23°C), 0.126 in (3.20 mm)	14500 psi	100 MPa	
Flexural Modulus <sup>3</sup>			ASTM D790
73°F (23°C), 0.126 in (3.20 mm)	870000 psi	6000 MPa	
Flexural Strength <sup>3</sup>			ASTM D790
73°F (23°C), 0.126 in (3.20 mm)	23200 psi	160 MPa	
Impact	Typical Value (English)	Typical Value (SI)	Test Method
Notched Izod Impact			ASTM D256
73°F (23°C), 0.126 in (3.20 mm)	1.3 ft-lb/in	70 J/m	
Flammability	Typical Value (English)	Typical Value (SI)	Test Method
Flame Rating (0.12 in (3.0 mm))	V-1	V-1	UL 94

### Processing Information

Injection	Typical Value (English)	Typical Value (SI)
Drying Temperature	248 to 266 °F	120 to 130 °C
Drying Time	3.0 to 4.0 hr	3.0 to 4.0 hr
Processing (Melt) Temp	536 to 572 °F	280 to 300 °C
Mold Temperature	140 to 230 °F	60 to 110 °C

#### Notes

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

<sup>2</sup> 2.0 in/min (50 mm/min)

<sup>3</sup> 0.051 in/min (1.3 mm/min)