



Edgetek™ PC-20GF/000

Polycarbonate

Key Characteristics

General			
Material Status	• Commercial: Active		
Regional Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Filler / Reinforcement	• Glass Fiber		
Forms	• Pellets		

Technical Properties ¹

Physical	Typical Value (English)	Typical Value (SI)	Test Method
Specific Gravity	1.34	1.34	ASTM D792
Molding Shrinkage - Flow	1.0E-3 to 4.0E-3 in/in	0.10 to 0.40 %	ASTM D955
Water Absorption (24 hr)	0.15 %	0.15 %	ASTM D570
Mechanical	Typical Value (English)	Typical Value (SI)	Test Method
Tensile Modulus ²	1.00E+6 psi	6890 MPa	ASTM D638
Tensile Strength ² (Break)	15500 psi	107 MPa	ASTM D638
Tensile Elongation ² (Break)	5.0 %	5.0 %	ASTM D638
Flexural Modulus	800000 psi	5520 MPa	ASTM D790
Flexural Strength	19000 psi	131 MPa	ASTM D790
Compressive Strength	20500 psi	141 MPa	ASTM D695
Shear Strength	8500 psi	58.6 MPa	ASTM D732
Impact	Typical Value (English)	Typical Value (SI)	Test Method
Notched Izod Impact 73°F (23°C), 0.250 in (6.35 mm), Injection Molded	2.5 ft·lb/in	130 J/m	ASTM D256A
Hardness	Typical Value (English)	Typical Value (SI)	Test Method
Rockwell Hardness (M-Scale)	85	85	ASTM D785
Thermal	Typical Value (English)	Typical Value (SI)	Test Method
Deflection Temperature Under Load 66 psi (0.45 MPa), Annealed, 0.125 in (3.18 mm)	300 °F	149 °C	ASTM D648
Deflection Temperature Under Load 264 psi (1.8 MPa), Annealed, 0.125 in (3.18 mm)	290 °F	143 °C	ASTM D648
CLTE - Flow	1.6E-5 in/in/°F	2.9E-5 cm/cm/°C	ASTM D696
Thermal Conductivity	2.4 Btu·in/hr/ft ² /°F	0.34 W/m/K	ASTM C177
Electrical	Typical Value (English)	Typical Value (SI)	Test Method
Volume Resistivity	6.0E+15 ohms·cm	6.0E+15 ohms·cm	ASTM D257
Flammability	Typical Value (English)	Typical Value (SI)	Test Method
Flame Rating	V-1	V-1	UL 94

Processing Information

Injection	Typical Value (English)	Typical Value (SI)
Drying Temperature	250 °F	121 °C
Drying Time	2.0 hr	2.0 hr

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Injection	Typical Value (English)	Typical Value (SI)
Processing (Melt) Temp	550 to 600 °F	288 to 316 °C
Mold Temperature	180 to 250 °F	82.2 to 121 °C

Notes

¹ Typical values are not to be construed as specifications.

² Type I, 0.20 in/min (5.1 mm/min)

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