

PolyOne Edgetek® PC-20GF/000 Polycarbonate (PC)

Category : Polymer , Thermoplastic , Polycarbonate (PC)

Material Notes:

Information provided by PolyOne

Order this product through the following link:

http://www.lookpolymers.com/polymer_PolyOne-Edgetek-PC-20GF000-Polycarbonate-PC.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.34 g/cc	1.34 g/cc	ASTM D792
Water Absorption	0.15 %	0.15 %	@ 24 hrs; ASTM D570
Linear Mold Shrinkage, Flow	0.0010 - 0.0040 cm/cm	0.0010 - 0.0040 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	85	85	ASTM D785
Tensile Strength at Break	107 MPa	15500 psi	Type I, 5.1 mm/min; ASTM D638
Elongation at Break	5.0 %	5.0 %	Type I, 5.1 mm/min; ASTM D638
Tensile Modulus	6.89 GPa	999 ksi	Type I, 5.1 mm/min; ASTM D638
Flexural Strength	131 MPa	19000 psi	ASTM D790
Flexural Modulus	5.52 GPa	801 ksi	ASTM D790
Compressive Strength	141 MPa	20500 psi	ASTM D695
Shear Strength	58.6 MPa	8500 psi	ASTM D732
Izod Impact, Notched	1.30 J/cm @Thickness 6.35 mm, Temperature 23.0 °C	2.44 ft-lb/in @Thickness 0.250 in, Temperature 73.4 °F	Injection Molded; ASTM D256A

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	29.0 µm/m-°C	16.1 µin/in-°F	ASTM D696
Thermal Conductivity	0.340 W/m-K	2.36 BTU-in/hr-ft²-°F	ASTM C177
Deflection Temperature at 0.46 MPa (66 psi)	149 °C @Thickness 3.18 mm	300 °F @Thickness 0.125 in	Annealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	143 °C @Thickness 3.18 mm	289 °F @Thickness 0.125 in	Annealed; ASTM D648

Flammability 1B 94 Thermal Properties	V-1 Metric	V-1 English	1B 94 Comments
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Electrical Properties	Metric	English	Comments
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Volume Resistivity	6.00e+15 ohm-cm	6.00e+15 ohm-cm	ASTM D257
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Processing Properties	Metric	English	Comments
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Melt Temperature	288 - 316 °C	550 - 601 °F	
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Mold Temperature	82.2 - 121 °C	180 - 250 °F	
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Drying Temperature	121 °C	250 °F	
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Dry Time	2.00 hour	2.00 hour	
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Descriptive Properties	Value	Comments
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Filler / Reinforcement	Glass Fiber Reinforcement	
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Forms	Pellets	
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Generic Material	PC	
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Generic Name	Polycarbonate (PC)	
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Regional Availability	Africa & Middle East	
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	Europe	
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	North America	
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	South America	
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