

PolyOne Edgetek® PC-15CF/000 FCR Polycarbonate (PC)

Category : Polymer , Thermoplastic , Polycarbonate (PC)

Material Notes:

The Edgetek™ Engineering Thermoplastic Compounds portfolio covers a broad range of standard and custom-formulated high performance materials. This portfolio includes high-temperature materials for elevated service temperature environments, high-modulus / structural materials for load-bearing and high-strength applications and flame-retardant products. These compounds are based on select engineering thermoplastic resins that are compounded with reinforcing additives such as carbon fiber, glass fiber and glass beads. Information provided by PolyOne

Order this product through the following link:

http://www.lookpolymers.com/polymer_PolyOne-Edgetek-PC-15CF000-FCR-Polycarbonate-PC.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.26 g/cc	1.26 g/cc	ASTM D792
Water Absorption	0.15 %	0.15 %	@ 24 hrs; ASTM D570
Linear Mold Shrinkage, Flow	0.0010 - 0.0020 cm/cm	0.0010 - 0.0020 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	114 MPa	16500 psi	Type I, 5.1 mm/min; ASTM D638
Elongation at Break	3.0 %	3.0 %	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	172 MPa	24900 psi	ASTM D790
Flexural Modulus	6.89 GPa	999 ksi	ASTM D790
Izod Impact, Notched	0.800 J/cm @Thickness 6.35 mm, Temperature 23.0 °C	1.50 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	14.0 µm/m-°C	7.78 µin/in-°F	ASTM D696
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, UL94	HB	HB	UL 94

Electrical Properties	Metric	English	Comments
Volume Resistivity	100 ohm-cm - 1e+05	100 ohm-cm - 1e+05	ASTM D257
Surface Resistance	100 ohm - 1e+05	100 ohm - 1e+05	ASTM D257

Processing Properties	Metric	English	Comments
Melt Temperature	288 - 321 °C	550 - 610 °F	
Mold Temperature	82.2 - 107 °C	180 - 225 °F	
Drying Temperature	121 °C	250 °F	
Dry Time	2.00 hour	2.00 hour	

Descriptive Properties	Value	Comments
Features	Fast Molding Cycle	
Filler / Reinforcement	Carbon Fiber Reinforcement, 15% Filler by Weight	
Forms	Pellets	
Generic Material	PC	
Generic Name	Polycarbonate (PC)	
Regional Availability	Africa & Middle East	
	Asia Pacific	
	Europe	
	North America	
	South America	
RoHS Compliance	RoHS Compliant	

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