

## PolyOne Edgetek® PC-30GF/000 BLACK 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-30GF000-BLACK-Polycarbonate-PC.php](http://www.lookpolymers.com/polymer_PolyOne-Edgetek-PC-30GF000-BLACK-Polycarbonate-PC.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.42 g/cc	1.42 g/cc	ASTM D792
Linear Mold Shrinkage, Flow	0.0010 - 0.0030 cm/cm	0.0010 - 0.0030 in/in	ASTM D955
Linear Mold Shrinkage, Transverse	0.0020 - 0.0050 cm/cm @Thickness 3.18 mm	0.0020 - 0.0050 in/in @Thickness 0.125 in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	117 MPa	17000 psi	5.1 mm/min; ASTM D638
Elongation at Break	3.0 - 4.0 %	3.0 - 4.0 %	ASTM D638
Tensile Modulus	8.27 GPa	1200 ksi	5.1 mm/min; ASTM D638
Flexural Strength	186 MPa	27000 psi	1.3 mm/min; ASTM D790
Flexural Modulus	7.31 GPa	1060 ksi	1.3 mm/min; ASTM D790
Izod Impact, Notched	1.30 J/cm	2.44 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	142 °C	288 °F	Unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	138 °C	280 °F	Unannealed; ASTM D648

Descriptive Properties	Value	Comments
Features	Amorphous	
	Good Dimensional Stability	

Descriptive Properties	Good Toughness Value	Comments
Filler / Reinforcement	Glass Fiber Reinforcement, 30% Filler by Weight	
Forms	Pellets	
Generic Material	PC	
Generic Name	Polycarbonate (PC)	
Processing Method	Injection Molding	
Regional Availability	Africa & Middle East	
	Asia Pacific	
	Europe	
	North America	
	South America	
RoHS Compliance	RoHS Compliant	
Uses	Appliance Components	
	Appliances	
	Automotive Applications	
	Automotive Interior Parts	
	Business Equipment	
	Consumer Applications	
	General Purpose	
	Housings	

## Contact Songhan Plastic Technology Co.,Ltd.

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