

PolyOne Edgetek® PC-30CF/000 BLACK 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-30CF000-BLACK-Polycarbonate-PC.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.32 g/cc	1.32 g/cc	ASTM D792
Linear Mold Shrinkage, Flow	0.010 - 0.030 cm/cm	0.010 - 0.030 in/in	ASTM D955
	@Thickness 3.18 mm	@Thickness 0.125 in	
Linear Mold Shrinkage, Transverse	0.0080 - 0.0090 cm/cm	0.0080 - 0.0090 in/in	ASTM D955
	@Thickness 3.18 mm	@Thickness 0.125 in	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	172 MPa	24900 psi	5.1 mm/min; ASTM D638
Elongation at Break	1.0 - 2.0 %	1.0 - 2.0 %	ASTM D638
Tensile Modulus	20.2 GPa	2930 ksi	5.1 mm/min; ASTM D638
Flexural Strength	255 MPa	37000 psi	1.3 mm/min; ASTM D790
Flexural Modulus	17.0 GPa	2470 ksi	1.3 mm/min; ASTM D790
Izod Impact, Notched	0.750 J/cm	1.41 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	141 °C	286 °F	Unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	136 °C	277 °F	Unannealed; ASTM D648

Electrical Properties	Metric	English	Comments
Volume Resistivity	100 - 10000 ohm-cm	100 - 10000 ohm-cm	ASTM D257
Surface Resistance	100 - 10000 ohm	100 - 10000 ohm	ASTM D257

Descriptive Properties	Value	Comments
Features	Amorphous	

Descriptive Properties	Value	Comments
	Good Dimensional Stability	
	High Stiffness	
Filler / Reinforcement	Carbon Fiber Reinforcement, 30% Filler by Weight	
Forms	Pellets	
Generic Material	PC	
Generic Name	Polycarbonate (PC)	
Regional Availability	Africa & Middle East	
	Asia Pacific	
	Europe	
	North America	
	South America	
Uses	Business Equipment	
	Communication Applications	
	Electrical Housing	
	Electrical/Electronic Applications	
	Housings	

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