

PolyOne Edgetek® AT-15CF/000 BLACK Acetal (POM) Copolymer

Category : Polymer , Thermoplastic , Acetal (POM) , Acetal Copolymer, Carbon Fiber Filled

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-AT-15CF000-BLACK-Acetal-POM-Copolymer.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.44 g/cc	1.44 g/cc	ASTM D792
Linear Mold Shrinkage, Flow	0.0010 - 0.0050 cm/cm @Thickness 3.18 mm	0.0010 - 0.0050 in/in @Thickness 0.125 in	ASTM D955
Linear Mold Shrinkage, Transverse	0.010 - 0.030 cm/cm @Thickness 3.18 mm	0.010 - 0.030 in/in @Thickness 0.125 in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	80.7 MPa	11700 psi	5.1 mm/min; ASTM D638
Elongation at Break	1.0 - 2.0 %	1.0 - 2.0 %	Type I; ASTM D638
Tensile Modulus	12.1 GPa	1750 ksi	5.1 mm/min; ASTM D638
Flexural Strength	96.5 MPa	14000 psi	1.3 mm/min; ASTM D790
Flexural Modulus	8.72 GPa	1260 ksi	1.3 mm/min; ASTM D790
Izod Impact, Notched	0.320 J/cm	0.599 ft-lb/in	Injection Molded; ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	163 °C	325 °F	Unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	153 °C	307 °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

Electrical Properties	Metric	English	Comments
Descriptive Properties	Value		Comments
Features	Copolymer		
	Electrically Conductive		
	Good Wear Resistance		
	Semi Crystalline		
Filler / Reinforcement	Carbon Fiber Reinforcement, 15% Filler by Weight		
Forms	Pellets		
Generic Material	Acetal (POM) Copolymer		
Generic Name	Acetal (POM) Copolymer		
Regional Availability	Africa & Middle East		
	Asia Pacific		
	Europe		
	North America		
	South America		
RoHS Compliance	RoHS Compliant		
Uses	Automotive Applications		
	Business Equipment		
	Electrical/Electronic Applications		
	Industrial Applications		
	Printer Parts		

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