

PolyOne Edgetek® ATH-20CF/000 Acetal-Homopolymer, Carbon Fiber Reinforced (discontinued **)

Category : Polymer , Thermoplastic , Acetal (POM)

Material Notes:

Description/Features: Carbon Fiber Reinforced Electrically Conductive PolyOne First Choice Information provided by PolyOne Corporation.

Order this product through the following link:

http://www.lookpolymers.com/polymer_PolyOne-Edgetek-ATH-20CF000-Acetal-Homopolymer-Carbon-Fiber-Reinforced-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.482 g/cc	1.482 g/cc	ASTM D792
Water Absorption	0.15 % @Thickness 3.17 mm	0.15 % @Thickness 0.125 in	24 hr immersion; ASTM D570
Linear Mold Shrinkage	0.0025 - 0.0040 cm/cm	0.0025 - 0.0040 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	93.1 MPa	13500 psi	Type 1 - Rigids, 0.2 in/min; ASTM D638
Elongation at Break	3.0 %	3.0 %	Type 1 - Rigids, 0.2 in/min; ASTM D638
Tensile Modulus	6.89 GPa	1000 ksi	Type 1 - Rigids, 0.2 in/min; ASTM D638
Flexural Strength	103 MPa	15000 psi	ASTM D790
Flexural Modulus	6.89 GPa	1000 ksi	ASTM D790
Izod Impact, Notched	0.801 J/cm @Thickness 6.35 mm, Temperature 23.0 °C	1.50 ft-lb/in @Thickness 0.250 in, Temperature 73.4 °F	Method A, Injection Molded; ASTM D256

Electrical Properties	Metric	English	Comments
Volume Resistivity	10 - 1000 ohm-cm	10 - 1000 ohm-cm	ASTM D257
Surface Resistivity per Square	10 - 1000 ohm	10 - 1000 ohm	ASTM D257

Processing Properties	Metric	English	Comments
Melt Temperature	193 - 221 °C	380 - 430 °F	Molding
Mold Temperature	>= 65.6 °C	>= 150 °F	
Drying Temperature	71.1 °C	160 °F	

Processing Properties	Metric	English	Comments
Dry Time	2 Hour	2 Hour	

Descriptive Properties	Value	Comments
Product Form	Pellets	

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