

PolyOne Edgetek® AM-10CF-20GF/000 HS Polyphthalamide (PPA), Carbon Fiber Reinforced (discontinued **)

Category : Polymer , Thermoplastic , Polyphthalamide (PPA)

Material Notes:

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

Order this product through the following link:

http://www.lookpolymers.com/polymer_PolyOne-Edgetek-AM-10CF-20GF000-HS-Polyphthalamide-PPA-Carbon-Fiber-Reinforced-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.37 g/cc	1.37 g/cc	ASTM D792
Water Absorption	0.25 %	0.25 %	24 hr. Immersion; ASTM D570
Linear Mold Shrinkage	0.0035 - 0.0040 cm/cm	0.0035 - 0.0040 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	183 MPa	26500 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	11.4 GPa	1650 ksi	Type 1 - Rigids, 0.2 in/min; ASTM D638
Flexural Strength	276 MPa	40000 psi	ASTM D790
Flexural Modulus	11.4 GPa	1650 ksi	ASTM D790
Izod Impact, Notched	0.961 J/cm @Thickness 6.35 mm, Temperature 23.0 °C	1.80 ft-lb/in @Thickness 0.250 in, Temperature 73.4 °F	Method A, Injection Molded; ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	277 °C	530 °F	Annealed, 0.125 in bars; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	266 °C	510 °F	Annealed, 0.125 in bars; ASTM D648

Electrical Properties	Metric	English	Comments
Volume Resistivity	1e+05 - 1.00e+12 ohm-cm	1e+05 - 1.00e+12 ohm-cm	ASTM D257
Surface Resistivity per Square	1e+05 - 1.00e+12 ohm	1e+05 - 1.00e+12 ohm	ASTM D257

Processing Properties	Metric	English	Comments
Melt Temperature	304 - 327 °C	580 - 620 °F	Molding
Mold Temperature	>= 135 °C	>= 275 °F	
Drying Temperature	110 - 121 °C	230 - 250 °F	
Dry Time	6 hour	6 hour	

Descriptive Properties	Value	Comments
Product Form	Pellets	

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