

PolyOne Edgetek® AS-03CF/000 Acrylonitrile Butadiene Styrene (ABS), Carbon Fiber Reinforced (discontinued **)

Category : Polymer , Thermoplastic , ABS Polymer

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-AS-03CF000-Acrylonitrile-Butadiene-Styrene-ABS-Carbon-Fiber-Reinforced-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.07 g/cc	1.07 g/cc	ASTM D792
Water Absorption	0.30 %	0.30 %	24 hr. Immersion; ASTM D570
Linear Mold Shrinkage	0.0020 cm/cm	0.0020 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	60.7 MPa	8800 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	3.79 GPa	550 ksi	Type 1 - Rigids, 0.2 in/min; ASTM D638
Flexural Strength	99.3 MPa	14400 psi	ASTM D790
Flexural Modulus	3.93 GPa	570 ksi	ASTM D790
Izod Impact, Notched	0.614 J/cm @Thickness 6.35 mm, Temperature 23.0 °C	1.15 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)	98.9 °C	210 °F	Annealed, 0.125 in bars; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	96.1 °C	205 °F	Annealed, 0.125 in bars; ASTM D648

Processing Properties	Metric	English	Comments
Melt Temperature	227 - 249 °C	440 - 480 °F	Molding
Mold Temperature	37.8 - 54.4 °C	100 - 130 °F	
Drying Temperature	82.2 °C	180 °F	

Processing Properties	Metric	English	Comments
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Descriptive Properties		Value	Comments
Product Form		Pellets	

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