

PolyOne Edgetek® AS-20CF/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-20CF000-Acrylonitrile-Butadiene-Styrene-ABS-Carbon-Fiber-Reinforced-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.14 g/cc	1.14 g/cc	ASTM D792
Water Absorption	0.20 %	0.20 %	24 hr. Immersion; ASTM D570
Linear Mold Shrinkage	0.0010 - 0.0015 cm/cm	0.0010 - 0.0015 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	89.6 MPa	13000 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	5.86 GPa	850 ksi	Type 1 - Rigids, 0.2 in/min; ASTM D638
Flexural Strength	117 MPa	17000 psi	ASTM D790
Flexural Modulus	5.86 GPa	850 ksi	ASTM D790
Izod Impact, Notched	0.854 J/cm @Thickness 6.35 mm, Temperature 23.0 °C	1.60 ft-lb/in @Thickness 0.250 in, Temperature 73.4 °F	Method A, Injection Molded; ASTM D256

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

Processing Properties	Metric	English	Comments
Melt Temperature	221 - 243 °C	430 - 470 °F	Molding
Mold Temperature	60.0 - 71.1 °C	140 - 160 °F	
Drying Temperature	60.0 - 71.1 °C	140 - 160 °F	

Dry Time Processing Properties	6 hour Metric	6 hour English	Comments
Descriptive Properties		Value	Comments
Product Form		Pellets	

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