

Diamond Polymers DIAMALLOY 1001 CF20 20% Carbon Fiber Filled ABS

Category : Polymer , Thermoplastic , ABS Polymer , Acrylonitrile Butadiene Styrene (ABS), 20% Carbon Fiber Filled

Material Notes:

Information Provided by Diamond Polymers, Inc. & Network Polymers, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Diamond-Polymers-DIAMALLOY-1001-CF20-20-Carbon-Fiber-Filled-ABS.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.15 g/cc	1.15 g/cc	ASTM D792
Water Absorption	0.16 %	0.16 %	ASTM D570
Linear Mold Shrinkage	0.0015 - 0.0020 cm/cm	0.0015 - 0.0020 in/in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	108 MPa	15700 psi	chs 2.0 in/min; ASTM D638
Elongation at Yield	1.5 %	1.5 %	chs 2.0 in/min; ASTM D638
Flexural Strength	158 MPa	22900 psi	ASTM D790
Flexural Modulus	12.402 GPa @Thickness 3.17 mm	1798.8 ksi @Thickness 0.125 in	chs 0.05 in/min; ASTM D790
Izod Impact, Notched	0.641 J/cm @Thickness 3.17 mm	1.20 ft-lb/in @Thickness 0.125 in	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	102 °C	216 °F	0.125";; ASTM D648

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

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