

Diamond Polymers NPP25-0103 CF15 Conductive Copolymer Polypropylene

Category : Polymer , Thermoplastic , Polypropylene (PP) , Polypropylene Copolymer

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-NPP25-0103-CF15-Conductive-Copolymer-Polypropylene.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.12 g/cc	1.12 g/cc	ASTM D792
Linear Mold Shrinkage	0.015 - 0.022 cm/cm	0.015 - 0.022 in/in	ASTM D955
Melt Flow	<= 1.0 g/10 min @Load 10.0 kg, Temperature 230 °C	<= 1.0 g/10 min @Load 22.0 lb, Temperature 446 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	20.7 MPa	3000 psi	chs 2.0 in/min; ASTM D638
Elongation at Yield	100 %	100 %	chs 2.0 in/min; ASTM D638
Flexural Strength	34.4 MPa	4990 psi	ASTM D790
Flexural Modulus	2.274 GPa	329.8 ksi	ASTM D790
Izod Impact, Notched	1.602 J/cm @Thickness 3.17 mm	3.001 ft-lb/in @Thickness 0.125 in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	59.4 µm/m-°C	33.0 µin/in-°F	ASTM D696
Deflection Temperature at 1.8 MPa (264 psi)	81.0 °C	178 °F	ASTM D648

Electrical Properties	Metric	English	Comments
Volume Resistivity	1e+05 - 1.00e+7 ohm-cm	1e+05 - 1.00e+7 ohm-cm	
Surface Resistivity per Square	1e+05 - 1.00e+7 ohm	1e+05 - 1.00e+7 ohm	ASTM D257

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