

Diamond Polymers NPP30-0800 GF40 40% Glass Filled Homopolymer Polypropylene

Category : Polymer , Thermoplastic , Polypropylene (PP) , Polypropylene with 40% Glass Fiber Filler

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-NPP30-0800-GF40-40-Glass-Filled-Homopolymer-Polypropylene.php

Physical Properties	Metric	English	Comments
Density	1.22 g/cc	0.0441 lb/in ³	ASTM D792
Linear Mold Shrinkage	0.0020 cm/cm @Thickness 1.59 mm	0.0020 in/in @Thickness 0.0625 in	ASTM D955
Melt Flow	8.0 g/10 min @Load 2.16 kg, Temperature 230 °C	8.0 g/10 min @Load 4.76 lb, Temperature 446 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	81.0 MPa	11700 psi	chs 0.2 in/min; ASTM D638
Elongation at Yield	5.0 %	5.0 %	chs 0.2 in/min; ASTM D638
Flexural Strength	102.7 MPa	14900 psi	ASTM D790
Flexural Modulus	6.752 GPa	979.3 ksi	tangent; ASTM D790
Izod Impact, Notched	0.854 J/cm @Thickness 3.17 mm	1.60 ft-lb/in @Thickness 0.125 in	ASTM D256
Gardner Impact	0.500 J @Temperature 23.0 °C	0.369 ft-lb @Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	162 °C	324 °F	0.125";, ASTM D648

Descriptive Properties	Value	Comments
Glass Content (%)	40	ASTM D2584

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