

Diamond Polymers NPP25-0303 GF20 20% Glass Filled Polypropylene

Category : Polymer , Thermoplastic , Polypropylene (PP) , Polypropylene with 20% 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-NPP25-0303-GF20-20-Glass-Filled-Polypropylene.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.04 g/cc	1.04 g/cc	ASTM D792
Linear Mold Shrinkage	0.0030 - 0.0050 cm/cm	0.0030 - 0.0050 in/in	ASTM D955
Melt Flow	3.0 g/10 min @Load 2.16 kg, Temperature 230 °C	3.0 g/10 min @Load 4.76 lb, Temperature 446 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	84	84	ASTM D785
Tensile Strength, Yield	64.0 MPa	9280 psi	chs 2.0 in/min; ASTM D638
Elongation at Yield	4.0 %	4.0 %	chs 2.0 in/min; ASTM D638
Tensile Modulus	3.445 GPa	499.7 ksi	chs 2.0 in/min; ASTM D638
Flexural Strength	86.0 MPa	12500 psi	chs 0.05 in/min; SL 2 inches; ASTM D790
Flexural Modulus	3.10 GPa	450 ksi	chs 0.05 in/min; 1% secant; ASTM D790
Izod Impact, Notched	1.76 J/cm @Thickness 3.17 mm	3.30 ft-lb/in @Thickness 0.125 in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	43.2 $\mu\text{m}/\text{m}\cdot\text{°C}$	24.0 $\mu\text{in}/\text{in}\cdot\text{°F}$	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	160 °C	320 °F	0.125";; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	143 °C	289 °F	0.125";; ASTM D648

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