

Ovation Polymers OPTRENE 20GF Polypropylene, 20% Glass Reinforced

Category : Polymer , Thermoplastic , Polypropylene (PP)

Material Notes:

Properties of chemically coupled glass reinforced (20%) polypropylene with high strength and HDT. *All properties are measured after 48 hours of conditioning at 23°C and 50% relative humidity. All samples are prepared according to ASTM standards. Variations within normal tolerances are possible for various types of colors and functional properties like UV resistance. Information provided by Ovation Polymers

Order this product through the following link:

http://www.lookpolymers.com/polymer_Ovation-Polymers-OPTRENE-20GF-Polypropylene-20-Glass-Reinforced.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.033 g/cc	1.033 g/cc	ASTM D792
Linear Mold Shrinkage	0.0024 - 0.0030 cm/cm @Thickness 3.17 mm	0.0024 - 0.0030 in/in @Thickness 0.125 in	
Linear Mold Shrinkage, Transverse	0.0080 - 0.012 cm/cm @Thickness 3.17 mm	0.0080 - 0.012 in/in @Thickness 0.125 in	
Melt Index of Compound	14 - 16 g/10 min @Load 2.16 kg, Temperature 230 °C	14 - 16 g/10 min @Load 4.76 lb, Temperature 446 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	68.0 MPa	9860 psi	50 mm/min; ASTM D638
Elongation at Break	5.0 %	5.0 %	50 mm/min; ASTM D638
Tensile Modulus	2.10 GPa	305 ksi	50 mm/min; ASTM D638
Flexural Yield Strength	87.0 MPa	12600 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	2.50 GPa	363 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	0.694 J/cm	1.30 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	144 °C @Thickness 3.20 mm	291 °F @Thickness 0.126 in	unannealed; ASTM D648

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