

Ovation Polymers Optrene 10GF Polypropylene

Category : Polymer , Thermoplastic , Polypropylene (PP)

Material Notes:

Chemically coupled glass reinforced(10%) polypropylene with high strength and HDT.Information provided by Ovation Polymers

Order this product through the following link:

http://www.lookpolymers.com/polymer_Ovation-Polymers-Optrene-10GF-Polypropylene.php

Physical Properties	Metric	English	Comments
Specific Gravity	0.995 g/cc	0.995 g/cc	ASTM D792
Linear Mold Shrinkage, Flow	0.0024 - 0.0030 cm/cm	0.0024 - 0.0030 in/in	
	@Thickness 3.17 mm	@Thickness 0.125 in	
Linear Mold Shrinkage, Transverse	0.010 - 0.014 cm/cm	0.010 - 0.014 in/in	
	@Thickness 3.17 mm	@Thickness 0.125 in	
Melt Flow	13.1 g/10 min	13.1 g/10 min	ASTM D1238
	@Load 2.16 kg, Temperature 230 °C	@Load 4.76 lb, Temperature 446 °F	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	48.0 MPa	6960 psi	50 mm/min; ASTM D638
Elongation at Break	5.0 %	5.0 %	50 mm/min; ASTM D638
Tensile Modulus	1.70 GPa	247 ksi	50 mm/min; ASTM D638
Flexural Yield Strength	55.0 MPa	7980 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	1.50 GPa	218 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	0.801 J/cm	1.50 ft-lb/in	ASTM D256
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	145 °C	293 °F	unannealed; ASTM D648
	@Thickness 3.20 mm	@Thickness 0.126 in	

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