

Ovation Polymers Opnyl OP66GF13 Nylon 66, 13% Glass Reinforced

Category : Polymer , Thermoplastic , Nylon , Nylon 66

Material Notes:

Nylon 66 - Glass reinforced (13 %), high tensile strength, stiffness 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-Opnyl-OP66GF13-Nylon-66-13-Glass-Reinforced.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.22 g/cc	1.22 g/cc	ASTM D792
Linear Mold Shrinkage	0.0010 - 0.0020 cm/cm @Thickness 3.17 mm	0.0010 - 0.0020 in/in @Thickness 0.125 in	
Linear Mold Shrinkage, Transverse	0.010 - 0.0125 cm/cm @Thickness 3.17 mm	0.010 - 0.0125 in/in @Thickness 0.125 in	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	100 MPa	14500 psi	50 mm/min; ASTM D638
Elongation at Break	3.5 %	3.5 %	50 mm/min; ASTM D638
Tensile Modulus	3.90 GPa	566 ksi	50 mm/min; ASTM D638
Flexural Yield Strength	130 MPa	18900 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	5.00 GPa	725 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	0.350 J/cm	0.656 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	240 °C @Thickness 3.20 mm	464 °F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	235 °C @Thickness 3.20 mm	455 °F @Thickness 0.126 in	unannealed; ASTM D648

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