

Ovation Polymers Opnyl OP66GF33 Nylon 66, 33% Glass Reinforced, Dry

Category : Polymer , Thermoplastic , Nylon , Nylon 66

Material Notes:

Nylon 66 - Glass reinforced (33 %), high tensile strength, stiffness and HDT. *All properties are measured after 48 hours of conditioning at 23°C and 50% relative humidity. For Nylon compounds the measurements are done in dry and wet conditions. 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-OP66GF33-Nylon-66-33-Glass-Reinforced-Dry.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.38 g/cc	1.38 g/cc	ASTM D792
Linear Mold Shrinkage	0.0020 - 0.0030 cm/cm @Thickness 3.17 mm	0.0020 - 0.0030 in/in @Thickness 0.125 in	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	170 MPa	24700 psi	50 mm/min; ASTM D638
Elongation at Break	2.5 %	2.5 %	50 mm/min; ASTM D638
Tensile Modulus	8.50 GPa	1230 ksi	50 mm/min; ASTM D638
Flexural Yield Strength	210 MPa	30500 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	9.00 GPa	1310 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	1.148 J/cm	2.151 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	252 °C @Thickness 3.20 mm	486 °F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	246 °C @Thickness 3.20 mm	475 °F @Thickness 0.126 in	ASTM D648

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