

Ovation Polymers Opnyl OP6GF50 Nylon 6, 50% Glass Reinforced, Dry

Category : Polymer , Thermoplastic , Nylon , Nylon 6

Material Notes:

Nylon 6 - Glass reinforced (50 %), 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-OP6GF50-Nylon-6-50-Glass-Reinforced-Dry.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.59 g/cc	1.59 g/cc	ASTM D792
Linear Mold Shrinkage	0.0020 - 0.0040 cm/cm @Thickness 3.17 mm	0.0020 - 0.0040 in/in @Thickness 0.125 in	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	225 MPa	32600 psi	50 mm/min; ASTM D638
Elongation at Break	2.0 %	2.0 %	50 mm/min; ASTM D638
Tensile Modulus	8.80 GPa	1280 ksi	50 mm/min; ASTM D638
Flexural Yield Strength	240 MPa	34800 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	12.4 GPa	1800 ksi	1.3 mm/min; ASTM D790
Izod Impact, Notched	1.201 J/cm	2.250 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	216 °C @Thickness 3.20 mm	421 °F @Thickness 0.126 in	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	211 °C @Thickness 3.20 mm	412 °F @Thickness 0.126 in	ASTM D648

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