

Ovation Polymers Opnyl OP6GF43 Nylon 6, 43% Glass Reinforced, Dry

Category : Polymer , Thermoplastic , Nylon , Nylon 6

Material Notes:

Nylon 6 - Glass reinforced (43 %), 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-OP6GF43-Nylon-6-43-Glass-Reinforced-Dry.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.53 g/cc	1.53 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	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	215 MPa	31200 psi	50 mm/min; ASTM D638
Elongation at Break	2.0 %	2.0 %	50 mm/min; ASTM D638
Tensile Modulus	8.40 GPa	1220 ksi	50 mm/min; ASTM D638
Flexural Yield Strength	240 MPa	34800 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	11.0 GPa	1600 ksi	1.3 mm/min; ASTM D790
Izod Impact, Notched	1.121 J/cm	2.100 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)	210 °C @Thickness 3.20 mm	410 °F @Thickness 0.126 in	ASTM D648

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