

Ovation Polymers Opnyl OP66UT119 Nylon 66

Category : Polymer , Thermoplastic , Nylon , Nylon 66

Material Notes:

Ultra Tough - High Impact, Excellent retention of mechanical properties, High service temperature. *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-OP66UT119-Nylon-66.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.10 g/cc	1.10 g/cc	ASTM D792
Linear Mold Shrinkage	0.011 - 0.0125 cm/cm @Thickness 3.17 mm	0.011 - 0.0125 in/in @Thickness 0.125 in	
Linear Mold Shrinkage, Transverse	0.0145 - 0.016 cm/cm @Thickness 3.17 mm	0.0145 - 0.016 in/in @Thickness 0.125 in	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	51.0 MPa	7400 psi	50 mm/min; ASTM D638
Elongation at Break	126 %	126 %	50 mm/min; ASTM D638
Tensile Modulus	1.70 GPa	247 ksi	50 mm/min; ASTM D638
Flexural Yield Strength	73.0 MPa	10600 psi	1.3 mm/min, 50 mm span; ASTM D790
Flexural Modulus	1.80 GPa	261 ksi	1.3 mm/min, 50 mm span; ASTM D790
Izod Impact, Notched	9.52 J/cm	17.8 ft-lb/in	ASTM D256
	4.22 J/cm @Temperature -30.0 °C	7.90 ft-lb/in @Temperature -22.0 °F	ASTM D256

Thermal Properties	Metric	English	Comments
Melting Point	256 °C	493 °F	@ 15°C/min; ASTM D3418
Deflection Temperature at 0.46 MPa (66 psi)	210 °C @Thickness 3.20 mm	410 °F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	63.0 °C @Thickness 3.20 mm	145 °F @Thickness 0.126 in	unannealed; ASTM D648

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