

Unitika M2350 PA6, Dry

Category : Polymer , Thermoplastic , Nylon , Nylon 6

Material Notes:

Nano composite nylon Information provided by Unitika Ltd.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Unitika-M2350-PA6-Dry.php

Physical Properties	Metric	English	Comments
Density	1.15 g/cc	0.0415 lb/in ³	ASTM D792
Moisture Absorption at Equilibrium	2.8 %	2.8 %	50% RH
Linear Mold Shrinkage, Flow	0.0080 cm/cm @Thickness 3.20 mm	0.0080 in/in @Thickness 0.126 in	ASTM D955
Linear Mold Shrinkage, Transverse	0.010 cm/cm @Thickness 3.20 mm	0.010 in/in @Thickness 0.126 in	ASTM D955

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	88.0 MPa	12800 psi	ASTM D638
Elongation at Break	5.0 %	5.0 %	ASTM D638
Flexural Strength	140 MPa	20300 psi	ASTM D790
Flexural Modulus	4.00 GPa	580 ksi	ASTM D790
Izod Impact, Notched	0.440 J/cm	0.824 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	63.0 $\mu\text{m}/\text{m}\cdot^{\circ}\text{C}$	35.0 $\mu\text{in}/\text{in}\cdot^{\circ}\text{F}$	ASTM D696
Deflection Temperature at 0.46 MPa (66 psi)	193 $^{\circ}\text{C}$	379 $^{\circ}\text{F}$	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	147 $^{\circ}\text{C}$	297 $^{\circ}\text{F}$	ASTM D648

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