

Unitika M1030B PA6, Conditioned

Category : Polymer , Thermoplastic , Nylon , Nylon 6

Material Notes:

Nano composite nylonInformation provided by Unitika Ltd.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Unitika-M1030B-PA6-Conditioned.php

Physical Properties	Metric	English	Comments
Density	1.14 g/cc	0.0412 lb/in ³	ASTM D792
Water Absorption	1.0 % @Time 86400 sec	1.0 % @Time 24.0 hour	
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
Hardness, Rockwell R	90	90	ASTM D785
Tensile Strength at Break	55.0 MPa	7980 psi	ASTM D638
Elongation at Break	35 %	35 %	ASTM D638
Flexural Strength	50.0 MPa	7250 psi	ASTM D790
Flexural Modulus	1.50 GPa	218 ksi	ASTM D790
Compressive Strength	60.0 MPa	8700 psi	ASTM D362
Shear Strength	48.0 MPa	6960 psi	ASTM D732
Izod Impact, Notched	2.50 J/cm	4.68 ft-lb/in	ASTM D256

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