

Unitika M1030B PA6, Dry

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-Dry.php

Physical Properties	Metric	English	Comments
Density	1.14 g/cc	0.0412 lb/in ³	ASTM D792
Water Absorption	1.0 %	1.0 %	
	@Time 86400 sec	@Time 24.0 hour	
Moisture Absorption at Equilibrium	2.8 %	2.8 %	50% RH
Linear Mold Shrinkage, Flow	0.0080 cm/cm	0.0080 in/in	ASTM D955
	@Thickness 3.20 mm	@Thickness 0.126 in	
Linear Mold Shrinkage, Transverse	0.010 cm/cm	0.010 in/in	ASTM D955
	@Thickness 3.20 mm	@Thickness 0.126 in	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	113	113	ASTM D785
Tensile Strength at Break	85.0 MPa	12300 psi	ASTM D638
Elongation at Break	20 %	20 %	ASTM D638
Flexural Strength	133 MPa	19300 psi	ASTM D790
Flexural Modulus	3.70 GPa	537 ksi	ASTM D790
Compressive Strength	85.0 MPa	12300 psi	ASTM D362
Shear Strength	62.0 MPa	8990 psi	ASTM D732
Izod Impact, Notched	0.400 J/cm	0.749 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	190 °C	374 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	120 °C	248 °F	ASTM D648

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+13 ohm-cm	1.00e+13 ohm-cm	ASTM D257
Dielectric Strength	27.0 kV/mm	686 kV/in	ASTM D149

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