

Unitika M1030DH 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-M1030DH-PA6-Dry.php

Physical Properties	Metric	English	Comments
Density	1.15 g/cc	0.0415 lb/in ³	ISO 1183
Water Absorption	0.90 % @Time 86400 sec	0.90 % @Time 24.0 hour	ISO 62
Moisture Absorption at Equilibrium	2.8 %	2.8 %	50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0080 cm/cm @Thickness 3.20 mm	0.0080 in/in @Thickness 0.126 in	
Linear Mold Shrinkage, Transverse	0.010 cm/cm @Thickness 3.20 mm	0.010 in/in @Thickness 0.126 in	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	114	114	ISO 2039
Tensile Strength at Break	95.0 MPa	13800 psi	ISO 527-1/-2
Elongation at Break	3.4 %	3.4 %	ISO 527-1/-2
Tensile Modulus	4.30 GPa	624 ksi	ISO 527-1/-2
Flexural Strength	155 MPa	22500 psi	ISO 178
Flexural Modulus	4.50 GPa	653 ksi	ISO 178
Izod Impact, Notched	0.450 J/cm	0.843 ft-lb/in	ASTM D256
Charpy Impact Unnotched	5.70 J/cm ²	27.1 ft-lb/in ²	ISO 179-1
Charpy Impact, Notched	0.400 J/cm ²	1.90 ft-lb/in ²	ISO 179-1

Thermal Properties	Metric	English	Comments
CTE, linear	53.0 μm/m-°C	29.4 μin/in-°F	ISO 11359-2
Deflection Temperature at 0.46 MPa (66 psi)	186 °C	367 °F	ISO 75-1/-2

Thermal Properties <small>Deflection Temperature at 1.8 MPa (104 psi)</small>	Metric <small>140 °C</small>	English <small>284 °F</small>	Comments <small>ISO 75-1/2</small>
Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+13 ohm-cm	1.00e+13 ohm-cm	IEC 60093
Dielectric Constant	3.7 @Frequency 1.00e+6 Hz	3.7 @Frequency 1.00e+6 Hz	IEC 60250
Dielectric Strength	42.1 kV/mm @Thickness 1.00 mm	1070 kV/in @Thickness 0.0394 in	IEC 60243-1
Dissipation Factor	0.019 @Frequency 1.00e+6 Hz	0.019 @Frequency 1.00e+6 Hz	IEC 60250
Arc Resistance	122 sec	122 sec	ASTM D495
Comparative Tracking Index	475 V	475 V	IEC 60112

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