

Unitika M1030DH PA6, Conditioned

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-Conditioned.php

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

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	93.0 MPa	13500 psi	ISO 527-1/-2
Elongation at Break	4.0 %	4.0 %	ISO 527-1/-2
Tensile Modulus	2.60 GPa	377 ksi	ISO 527-1/-2
Flexural Strength	66.0 MPa	9570 psi	ISO 178
Flexural Modulus	2.50 GPa	363 ksi	ISO 178
Izod Impact, Notched	1.27 J/cm	2.38 ft-lb/in	ASTM D256
Charpy Impact Unnotched	7.00 J/cm ²	33.3 ft-lb/in ²	ISO 179-1
Charpy Impact, Notched	0.700 J/cm ²	3.33 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

Electrical Properties	Metric	English	Comments
Comparative Tracking Index	475 V	475 V	IEC 60112

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