

Unitika A1030TF PA6, Dry

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6 , Unreinforced

Material Notes:

Lubricating nylon Information provided by Unitika Ltd.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Unitika-A1030TF-PA6-Dry.php

Physical Properties	Metric	English	Comments
Density	1.18 g/cc	0.0426 lb/in ³	ISO 1183
Water Absorption	1.6 % @Time 86400 sec	1.6 % @Time 24.0 hour	ISO 62
Moisture Absorption at Equilibrium	2.5 %	2.5 %	50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.015 cm/cm @Thickness 3.20 mm	0.015 in/in @Thickness 0.126 in	
Linear Mold Shrinkage, Transverse	0.018 cm/cm @Thickness 3.20 mm	0.018 in/in @Thickness 0.126 in	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	116	116	ISO 2039
Tensile Strength, Yield	68.0 MPa	9860 psi	ISO 527-1/-2
Elongation at Break	15 %	15 %	ISO 527-1/-2
Elongation at Yield	4.0 %	4.0 %	ISO 527-1/-2
Tensile Modulus	2.70 GPa	392 ksi	ISO 527-1/-2
Flexural Strength	90.0 MPa	13100 psi	ISO 178
Flexural Modulus	2.50 GPa	363 ksi	ISO 178
Charpy Impact Unnotched	8.20 J/cm ²	39.0 ft-lb/in ²	ISO 179-1
Charpy Impact, Notched	0.300 J/cm ²	1.43 ft-lb/in ²	ISO 179-1

Thermal Properties	Metric	English	Comments
CTE, linear	80.0 μm/m-°C	44.4 μin/in-°F	ISO 11359-2
Deflection Temperature at 0.46 MPa (66 psi)	120 °C	248 °F	ISO 75-1/-2

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (104 psi)	52.0°C	127°F	ISO 75-1A2
Electrical Properties	Metric	English	Comments
Volume Resistivity	3.00e+13 ohm-cm	3.00e+13 ohm-cm	IEC 60093
Dielectric Constant	3.4 @Frequency 1.00e+6 Hz	3.4 @Frequency 1.00e+6 Hz	IEC 60250
Dissipation Factor	0.020 @Frequency 1.00e+6 Hz	0.020 @Frequency 1.00e+6 Hz	IEC 60250

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