

Unitika A1030SR PA6, Dry

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

Material Notes:

Information provided by Unitika Ltd.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Unitika-A1030SR-PA6-Dry.php

Physical Properties	Metric	English	Comments
Density	1.13 g/cc	0.0408 lb/in ³	ISO 1183
Water Absorption	1.8 % @Time 86400 sec	1.8 % @Time 24.0 hour	ISO 62
Moisture Absorption at Equilibrium	2.8 %	2.8 %	50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.010 cm/cm @Thickness 3.20 mm	0.010 in/in @Thickness 0.126 in	
Linear Mold Shrinkage, Transverse	0.013 cm/cm @Thickness 3.20 mm	0.013 in/in @Thickness 0.126 in	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	112	112	ISO 2039
Tensile Strength, Yield	78.0 MPa	11300 psi	ISO 527-1/-2
Elongation at Break	45 %	45 %	ISO 527-1/-2
Elongation at Yield	4.0 %	4.0 %	ISO 527-1/-2
Tensile Modulus	2.60 GPa	377 ksi	ISO 527-1/-2
Flexural Strength	99.0 MPa	14400 psi	ISO 178
Flexural Modulus	2.50 GPa	363 ksi	ISO 178
Charpy Impact Unnotched	NB	NB	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	96.0 μm/m-°C	53.3 μin/in-°F	ISO 11359-2
Deflection Temperature at 0.46 MPa (66 psi)	162 °C	324 °F	ISO 75-1/-2

Thermal Properties	Metric	English	Comments
Flammability, UL94	V-2 @Thickness 0.750 mm	V-2 @Thickness 0.0295 in	

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
Dielectric Strength	37.0 kV/mm @Thickness 1.00 mm	940 kV/in @Thickness 0.0394 in	IEC 60243-1
Dissipation Factor	0.020 @Frequency 1.00e+6 Hz	0.020 @Frequency 1.00e+6 Hz	IEC 60250
Comparative Tracking Index	>= 600 V	>= 600 V	IEC 60112

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