

Unitika EX-1020K PA6, Conditioned

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

Material Notes:

Conducting nylon Information provided by Unitika Ltd.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Unitika-EX-1020K-PA6-Conditioned.php

Physical Properties	Metric	English	Comments
Density	1.12 g/cc	0.0405 lb/in ³	ISO 1183
Water Absorption	1.3 % @Time 86400 sec	1.3 % @Time 24.0 hour	ISO 62
Moisture Absorption at Equilibrium	2.0 %	2.0 %	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	0.012 cm/cm @Thickness 3.20 mm	0.012 in/in @Thickness 0.126 in	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	80	80	ISO 2039
Tensile Strength, Yield	40.0 MPa	5800 psi	ISO 527-1/-2
Elongation at Break	38 %	38 %	ISO 527-1/-2
Tensile Modulus	1.20 GPa	174 ksi	ISO 527-1/-2
Flexural Strength	38.0 MPa	5510 psi	ISO 178
Flexural Modulus	1.10 GPa	160 ksi	ISO 178
Charpy Impact Unnotched	NB	NB	ISO 179-1
Charpy Impact, Notched	2.30 J/cm ²	10.9 ft-lb/in ²	ISO 179-1

Electrical Properties	Metric	English	Comments
Volume Resistivity	10 ohm-cm	10 ohm-cm	IEC 60093

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