

Unitika A1030BRL PA6, Conditioned

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-A1030BRL-PA6-Conditioned.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	88	88	ISO 2039
Tensile Strength, Yield	38.0 MPa	5510 psi	ISO 527-1/-2
Elongation at Break	>= 200 %	>= 200 %	ISO 527-1/-2
Elongation at Yield	24 %	24 %	ISO 527-1/-2
Tensile Modulus	0.940 GPa	136 ksi	ISO 527-1/-2
Flexural Strength	34.0 MPa	4930 psi	ISO 178
Flexural Modulus	0.900 GPa	131 ksi	ISO 178
Charpy Impact Unnotched	NB	NB	ISO 179-1
Charpy Impact, Notched	4.10 J/cm ²	19.5 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
Flammability, UL94	V-2 @Thickness 0.840 mm	V-2 @Thickness 0.0331 in	

Thermal Properties	Metric	English	Comments
Electrical Properties	Metric	English	Comments
Volume Resistivity	8.00e+11 ohm-cm	8.00e+11 ohm-cm	IEC 60093
Dielectric Constant	3.7	3.7	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Dielectric Strength	33.0 kV/mm	838 kV/in	IEC 60243-1
	@Thickness 1.00 mm	@Thickness 0.0394 in	
Dissipation Factor	0.080	0.080	IEC 60250
	@Frequency 1.00e+6 Hz	@Frequency 1.00e+6 Hz	
Comparative Tracking Index	>= 600 V	>= 600 V	IEC 60112

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