

Unitika A1030JR 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-A1030JR-PA6-Dry.php

Physical Properties	Metric	English	Comments
Density	1.14 g/cc	0.0412 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	0.0090 cm/cm @Thickness 3.20 mm	0.0090 in/in @Thickness 0.126 in	
Linear Mold Shrinkage, Transverse	0.011 cm/cm @Thickness 3.20 mm	0.011 in/in @Thickness 0.126 in	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	120	120	ISO 2039
Tensile Strength, Yield	82.0 MPa	11900 psi	ISO 527-1/-2
Elongation at Break	30 %	30 %	ISO 527-1/-2
Elongation at Yield	4.0 %	4.0 %	ISO 527-1/-2
Tensile Modulus	2.90 GPa	421 ksi	ISO 527-1/-2
Flexural Strength	105 MPa	15200 psi	ISO 178
Flexural Modulus	2.80 GPa	406 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)	170 °C	338 °F	ISO 75-1/-2

Thermal Properties	Metric	English	Comments
Flammability, UL94	V-2 @Thickness 0.840 mm	V-2 @Thickness 0.0331 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

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	230 - 250 °C	446 - 482 °F	
Middle Barrel Temperature	230 - 250 °C	446 - 482 °F	
Front Barrel Temperature	220 - 230 °C	428 - 446 °F	
Nozzle Temperature	230 - 250 °C	446 - 482 °F	
Mold Temperature	70.0 - 80.0 °C	158 - 176 °F	
Back Pressure	3.00 - 5.00 MPa	435 - 725 psi	

Descriptive Properties	Value	Comments
Primary Pressure	50-70 MPa	
Secondary Pressure	40-60 MPa	

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215, Fengxian District, Shanghai City, China