

Unitika A3130 PA6, 35% Mineral Reinforced, Dry

Category : Polymer , Thermoplastic , Nylon , Nylon 6 , Nylon 6 , 40% Mineral Filled

Material Notes:

Information provided by Unitika Ltd.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Unitika-A3130-PA6-35-Mineral-Reinforced-Dry.php

Physical Properties	Metric	English	Comments
Density	1.40 g/cc	0.0506 lb/in ³	ISO 1183
Water Absorption	1.2 % @Time 86400 sec	1.2 % @Time 24.0 hour	ISO 62
Moisture Absorption at Equilibrium	1.8 %	1.8 %	50% RH; ISO 62
Linear Mold Shrinkage, Flow	0.0040 cm/cm @Thickness 3.20 mm	0.0040 in/in @Thickness 0.126 in	
Linear Mold Shrinkage, Transverse	0.0080 cm/cm @Thickness 3.20 mm	0.0080 in/in @Thickness 0.126 in	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	119	119	ISO 2039
Tensile Strength at Break	70.0 MPa	10200 psi	ISO 527-1/-2
Elongation at Break	2.9 %	2.9 %	ISO 527-1/-2
Tensile Modulus	6.40 GPa	928 ksi	ISO 527-1/-2
Flexural Strength	118 MPa	17100 psi	ISO 178
Flexural Modulus	6.30 GPa	914 ksi	ISO 178
Charpy Impact Unnotched	4.10 J/cm ²	19.5 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	50.0 µm/m-°C	27.8 µin/in-°F	ISO 11359-2
Deflection Temperature at 0.46 MPa (66 psi)	196 °C	385 °F	ISO 75-1/-2
Deflection Temperature at 1.8 MPa (264 psi)	130 °C	266 °F	ISO 75-1/-2

Thermal Properties	Metric	English	Comments
Flammability, UL94	@Thickness 0.810 mm	@Thickness 0.0319 in	

Electrical Properties	Metric	English	Comments
Volume Resistivity	2.00e+13 ohm-cm	2.00e+13 ohm-cm	IEC 60093
Dielectric Constant	3.6 @Frequency 1.00e+6 Hz	3.6 @Frequency 1.00e+6 Hz	IEC 60250
Dielectric Strength	42.1 kV/mm @Thickness 1.00 mm	1070 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

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	255 - 265 °C	491 - 509 °F	
Middle Barrel Temperature	250 - 260 °C	482 - 500 °F	
Front Barrel Temperature	230 - 240 °C	446 - 464 °F	
Nozzle Temperature	250 - 260 °C	482 - 500 °F	
Mold Temperature	80.0 - 100 °C	176 - 212 °F	
Back Pressure	3.00 - 5.00 MPa	435 - 725 psi	

Descriptive Properties	Value	Comments
Primary Pressure	70-90 MPa	
Secondary Pressure	50-70 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