

Kuraray Genestar™ GR2300 Nylon, 30% Glass Filled

Category : Polymer , Thermoplastic , Nylon

Material Notes:

Standard V-0 Grade. Delivers increased fluidity and weld strength. Well suited for a wide range of electrical and electronic components.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Kuraray-Genestar-GR2300-Nylon-30-Glass-Filled.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.57 g/cc	1.57 g/cc	
Water Absorption	1.1 %	1.1 %	
Linear Mold Shrinkage, Flow	0.0010 cm/cm	0.0010 in/in	
Linear Mold Shrinkage, Transverse	0.0065 cm/cm	0.0065 in/in	
Melt Flow	16 g/10 min @Load 2.16 kg, Temperature 320 °C	16 g/10 min @Load 4.76 lb, Temperature 608 °F	ASTM D1238
Spiral Flow	6.50 cm @Load 750 kg, Temperature 320 °C	2.56 in @Load 1650 lb, Temperature 608 °F	0.5mm diameter

Mechanical Properties	Metric	English	Comments
Tensile Strength	55.0 MPa	7980 psi	Weld; ASTM D638
	180 MPa	26100 psi	ASTM D638
Elongation at Yield	0.70 %	0.70 %	Weld; ASTM D638
	4.0 %	4.0 %	ASTM D638
Flexural Strength	220 MPa	31900 psi	ASTM D790
Flexural Modulus	10.0 GPa	1450 ksi	ASTM D790
Izod Impact, Notched	1.00 J/cm	1.87 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
Melting Point	306 °C	583 °F	
Deflection Temperature at 1.8 MPa (264 psi)	285 °C	545 °F	ASTM D648
Glass Transition Temp, Tg	125 °C	257 °F	

Flammability UL 94 Thermal Properties	V-0 Metric	V-0 English	Comments
Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+16 ohm-cm	1.00e+16 ohm-cm	ASTM D257
Dielectric Constant	3.4 @Frequency 1.00e+10 Hz	3.4 @Frequency 1.00e+10 Hz	ASTM D150
Dielectric Strength	30.0 kV/mm	762 kV/in	ASTM D149
Dielectric Loss Index	0.010 @Frequency 1.00e+10 Hz	0.010 @Frequency 1.00e+10 Hz	ASTM D150
Comparative Tracking Index	>= 600 V	>= 600 V	ASTM UL746A

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