

Kuraray Genestar[®], G1302 Nylon, 30% Glass Filled

Category : Polymer , Thermoplastic , Nylon

Material Notes:

Abrasion Resistance HB grade. Halogen free, following the standards that Br is less than 900ppm, Cl is less than 900ppm, and total of halogen amount (Br and Cl) is less than 1500ppm. It delivers low friction.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Kuraray-Genestar-G1302-Nylon-30-Glass-Filled.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.37 g/cc	1.37 g/cc	
Water Absorption	1.4 %	1.4 %	
Linear Mold Shrinkage, Flow	0.0020 cm/cm	0.0020 in/in	
Linear Mold Shrinkage, Transverse	0.0070 cm/cm	0.0070 in/in	
Melt Flow	46 g/10 min @Load 2.16 kg, Temperature 320 Â°C	46 g/10 min @Load 4.76 lb, Temperature 608 Â°F	ASTM D1238
Spiral Flow	5.50 cm @Load 750 kg, Temperature 320 Â°C	2.17 in @Load 1650 lb, Temperature 608 Â°F	0.5mm diameter

Mechanical Properties	Metric	English	Comments
Tensile Strength	47.0 MPa	6820 psi	Weld; ASTM D638
	165 MPa	23900 psi	ASTM D638
Elongation at Yield	0.70 %	0.70 %	Weld; ASTM D638
	4.0 %	4.0 %	ASTM D638
Flexural Strength	210 MPa	30500 psi	ASTM D790
Flexural Modulus	9.00 GPa	1310 ksi	ASTM D790
Izod Impact, Notched	1.15 J/cm	2.15 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
Melting Point	306 Â°C	583 Â°F	
Deflection Temperature at 1.8 MPa (264 psi)	290 Â°C	554 Â°F	ASTM D648
Glass Transition Temp, Tg			

Thermal Properties	125 Å°C Metric	257 Å°F English	Comments
Flammability, UL94	HB	HB	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+16 ohm-cm	1.00e+16 ohm-cm	ASTM D257
Dielectric Constant	3.3 @Frequency 1.00e+10 Hz	3.3 @Frequency 1.00e+10 Hz	ASTM D150
Dielectric Strength	30.0 kV/mm	762 kV/in	ASTM D149
Dielectric Loss Index	0.0090 @Frequency 1.00e+10 Hz	0.0090 @Frequency 1.00e+10 Hz	ASTM D150
Comparative Tracking Index	>= 600 V	>= 600 V	ASTM UL746A

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