

Kuraray Genestar®, G1350H Nylon, 35% Glass Filled

Category : Polymer , Thermoplastic , Nylon

Material Notes:

Standard 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 is suitable for use in a wide range of electrical and electronics components as UL94 HB flammability rating.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Kuraray-Genestar-G1350H-Nylon-35-Glass-Filled.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.40 g/cc	1.40 g/cc	
Water Absorption	1.4 %	1.4 %	
Linear Mold Shrinkage, Flow	0.0020 cm/cm	0.0020 in/in	
Linear Mold Shrinkage, Transverse	0.0080 cm/cm	0.0080 in/in	
Melt Flow	42 g/10 min @Load 2.16 kg, Temperature 320 Â°C	42 g/10 min @Load 4.76 lb, Temperature 608 Â°F	ASTM D1238
Spiral Flow	5.30 cm @Load 750 kg, Temperature 320 Â°C	2.09 in @Load 1650 lb, Temperature 608 Â°F	0.5mm diameter

Mechanical Properties	Metric	English	Comments
Tensile Strength	45.0 MPa	6530 psi	Weld; ASTM D638
	180 MPa	26100 psi	ASTM D638
Elongation at Yield	0.60 %	0.60 %	Weld; ASTM D638
	4.0 %	4.0 %	ASTM D638
Flexural Strength	230 MPa	33400 psi	ASTM D790
Flexural Modulus	10.0 GPa	1450 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

Thermal Properties	Metric	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	3.4	3.4	ASTM D150
	@Frequency 1.00e+10 Hz	@Frequency 1.00e+10 Hz	
Dielectric Strength	30.0 kV/mm	762 kV/in	ASTM D149
Dielectric Loss Index	0.0090	0.0090	ASTM D150
	@Frequency 1.00e+10 Hz	@Frequency 1.00e+10 Hz	
Comparative Tracking Index	>= 600 V	>= 600 V	ASTM UL746A

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