

## Kuraray Genestar™ GN2450 Nylon, 45% Glass Filled

Category : Polymer , Thermoplastic , Nylon

### Material Notes:

High Strength V-0 Grade. Features a high strength and modulus. It is well suited for FPC sliders and IC sockets, as well as other components that require modulus and dimensional precision.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Kuraray-Genestar-GN2450-Nylon-45-Glass-Filled.php](http://www.lookpolymers.com/polymer_Kuraray-Genestar-GN2450-Nylon-45-Glass-Filled.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.73 g/cc	1.73 g/cc	
Water Absorption	0.70 %	0.70 %	
Linear Mold Shrinkage, Flow	0.0010 cm/cm	0.0010 in/in	
Linear Mold Shrinkage, Transverse	0.0050 cm/cm	0.0050 in/in	
Melt Flow	15 g/10 min @Load 2.16 kg, Temperature 320 °C	15 g/10 min @Load 4.76 lb, Temperature 608 °F	ASTM D1238
Spiral Flow	3.70 cm @Load 750 kg, Temperature 320 °C	1.46 in @Load 1650 lb, Temperature 608 °F	0.5mm diameter

Mechanical Properties	Metric	English	Comments
Tensile Strength	40.0 MPa	5800 psi	Weld; ASTM D638
	200 MPa	29000 psi	ASTM D638
Elongation at Yield	0.40 %	0.40 %	Weld; ASTM D638
	4.1 %	4.1 %	ASTM D638
Flexural Strength	270 MPa	39200 psi	ASTM D790
Flexural Modulus	14.0 GPa	2030 ksi	ASTM D790
Izod Impact, Notched	1.05 J/cm	1.97 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			

Thermal Properties	125 °C Metric	257 °F English	Comments
Flammability, UL94	V-0	V-0	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+16 ohm-cm	1.00e+16 ohm-cm	ASTM D257
Dielectric Constant	3.8 @Frequency 1.00e+10 Hz	3.8 @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

## Contact Songhan Plastic Technology Co.,Ltd.

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