

## Kuraray Genestar<sup>®</sup>,ç GW2458HF Nylon, 45% Glass Filled

Category : Polymer , Thermoplastic , Nylon

**Material Notes:**

Low Warpage, High Flow V-0 Grade. It is suited for low warpage and high flow applications, making it well suited for card connectors.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Kuraray-Genestar-GW2458HF-Nylon-45-Glass-Filled.php](http://www.lookpolymers.com/polymer_Kuraray-Genestar-GW2458HF-Nylon-45-Glass-Filled.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.73 g/cc	1.73 g/cc	
Water Absorption	0.80 %	0.80 %	
Linear Mold Shrinkage, Flow	0.00030 cm/cm	0.00030 in/in	
Linear Mold Shrinkage, Transverse	0.0040 cm/cm	0.0040 in/in	
Melt Flow	84 g/10 min @Load 2.16 kg, Temperature 320 Â°C	84 g/10 min @Load 4.76 lb, Temperature 608 Â°F	ASTM D1238
Spiral Flow	7.10 cm @Load 750 kg, Temperature 320 Â°C	2.80 in @Load 1650 lb, Temperature 608 Â°F	0.5mm diameter

Mechanical Properties	Metric	English	Comments
Tensile Strength	35.0 MPa	5080 psi	Weld; ASTM D638
	165 MPa	23900 psi	ASTM D638
Elongation at Yield	0.30 %	0.30 %	Weld; ASTM D638
	3.5 %	3.5 %	ASTM D638
Flexural Strength	225 MPa	32600 psi	ASTM D790
Flexural Modulus	15.0 GPa	2180 ksi	ASTM D790
Izod Impact, Notched	1.25 J/cm	2.34 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)	285 Â°C	545 Â°F	ASTM D648
Glass Transition Temp, Tg	125 Â°C	257 Â°F	

Flammability UL 94 Thermal Properties	V-0 Metric	V-0 English	Comments
<b>Electrical Properties</b>	<b>Metric</b>	<b>English</b>	<b>Comments</b>
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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