

**Product Texts**

Genestar GW1458HF is a 45%GF grade developed for E&E applications.

The main features of GW1458HF are:

- Low warpage
- Good flow-ability

GW1458HF is suitable for warpage-sensitive card connectors.

Processing/Physical Characteristics	Value	Unit	Test Standard
<b>ISO Data</b>			
<sup>[C]</sup> Molding shrinkage, parallel	0.2	%	ISO 294-4, 2577
<sup>[C]</sup> Molding shrinkage, normal	0.7	%	ISO 294-4, 2577
<b>ASTM Data</b>			
Melt Flow Index, MFI	90	g/10min	ASTM D 1238
Temperature	320	°C	-
Load	2.16	kg	-

[C]: CAMPUS

Mechanical properties	Value	Unit	Test Standard
<b>ISO Data</b>			
Tensile Strength	157	MPa	ISO 527
<sup>[C]</sup> Stress at break	157	MPa	ISO 527
<sup>[C]</sup> Strain at break	1.5	%	ISO 527
Flexural modulus, 23°C	12800	MPa	ISO 178
Flexural strength	242	MPa	ISO 178
<sup>[C]</sup> Charpy notched impact strength, +23°C	16	kJ/m <sup>2</sup>	ISO 179/1eA

<b>ASTM Data</b>			
Tensile Strength	150	MPa	ASTM D 638
Flexural Modulus	13000	MPa	ASTM D 790
Flexural Strength	207	MPa	ASTM D 790
Izod Impact notched, 1/8 in	130	J/m	ASTM D 256

[C]: CAMPUS

Thermal properties	Value	Unit	Test Standard
<b>ISO Data</b>			
<sup>[C]</sup> Melting temperature, 10°C/min	306	°C	ISO 11357-1/-3
<sup>[C]</sup> Glass transition temperature, 10°C/min	125	°C	ISO 11357-1/-2
<sup>[C]</sup> Temp. of deflection under load, 1.80 MPa	290	°C	ISO 75-1/-2

<b>ASTM Data</b>			
UL 94 Flame rating	HB	-	UL 94
DTUL @ 264 psi	290	°C	ASTM D 648
Melting Temperature	306	°C	ASTM D 3418
Glass Transition Temperature	125	°C	ASTM E 1356

[C]: CAMPUS

Electrical properties	Value	Unit	Test Standard
<b>ASTM Data</b>			
Dielectric Strength, Short Time	30	kV/mm	ASTM D 149
Volume Resistivity	>1E15	Ohm*cm	ASTM D 257

Other properties	Value	Unit	Test Standard
<sup>[C]</sup> Water absorption	0.12	%	Sim. to ISO 62
<sup>[C]</sup> Density	1500	kg/m <sup>3</sup>	ISO 1183
Density	1500	kg/m <sup>3</sup>	ASTM D 792

[C]: CAMPUS

**Characteristics**

**Processing**

Injection Molding

**Special Characteristics**

Heat stabilized or stable to heat

**Features**

Low Warpage, Weldable

**Applications**

Electrical and Electronical

**Regional Availability**

North America, Europe, Asia Pacific, South and Central America, Near East/Africa