

Product Texts

Genestar GW2458HF-1 is a 45%GF reinforced grade for parts that require a low warpage and a high flow suitable for card connectors.

Thanks to its JEDEC MSL 1 rating (moisture sensitive level 1), this grade shows an excellent resistance to blisters.

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
^[C] Molding shrinkage, parallel	0.2	%	ISO 294-4, 2577
^[C] Molding shrinkage, normal	0.5	%	ISO 294-4, 2577
ASTM Data			
Melt Flow Index, MFI	84	g/10min	ASTM D 1238
Temperature	320	°C	-
Load	2.16	kg	-

[C]: CAMPUS

Mechanical properties	Value	Unit	Test Standard
ISO Data			
^[C] Tensile Modulus	16800	MPa	ISO 527
^[C] Stress at break	159	MPa	ISO 527
^[C] Strain at break	2.6	%	ISO 527
^[C] Charpy notched impact strength, +23°C	17	kJ/m ²	ISO 179/1eA
ASTM Data			
Tensile Strength	165	MPa	ASTM D 638
Flexural Modulus	15000	MPa	ASTM D 790
Flexural Strength	225	MPa	ASTM D 790
Izod Impact notched, 1/8 in	125	J/m	ASTM D 256

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Thermal properties	Value	Unit	Test Standard
ISO Data			
^[C] Melting temperature, 10°C/min	306	°C	ISO 11357-1/-3
^[C] Glass transition temperature, 10°C/min	125	°C	ISO 11357-1/-2
^[C] Temp. of deflection under load, 1.80 MPa	285	°C	ISO 75-1/-2
^[C] Burning Behav. at 1.5 mm nom. thickn.	V-0	class	IEC 60695-11-10
ASTM Data			
UL 94 Flame rating	V-0	-	UL 94
DTUL @ 264 psi	285	°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
ASTM Data			
Dielectric Strength, Short Time	30	kV/mm	ASTM D 149
Volume Resistivity	>1E15	Ohm*cm	ASTM D 257

Other properties	Value	Unit	Test Standard
^[C] Water absorption	0.08	%	Sim. to ISO 62
Density	1730	kg/m ³	ASTM D 792

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Characteristics**Processing**

Injection Molding

Features

Low Warpage, Weldable

Special Characteristics

Flame retardant, Heat stabilized or stable to heat

Regional Availability

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