

Product Texts

GENESTAR G1300H-F02 is an injection molding grade with 30% GF developed for reflow applications. It is halogen-free and has a HB flammability.

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

GENESTAR G1300H-F02 is suitable for all kind of reflow components such as:

- FPC connectors
- Board-to-board connectors
- wire-to-board connectors
- automotive connectors

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
^[C] Molding shrinkage, parallel	0.3	%	ISO 294-4, 2577
^[C] Molding shrinkage, normal	1.0	%	ISO 294-4, 2577
ASTM Data			
Melt Flow Index, MFI	45	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	9500	MPa	ISO 527
^[C] Stress at break	151	MPa	ISO 527
^[C] Strain at break	1.9	%	ISO 527
^[C] Charpy notched impact strength, +23°C	11	kJ/m ²	ISO 179/1eA
ASTM Data			
Tensile Strength	160	MPa	ASTM D 638
Flexural Modulus	8500	MPa	ASTM D 790
Flexural Strength	205	MPa	ASTM D 790
Izod Impact notched, 1/8 in	105	J/m	ASTM D 256

[C]: CAMPUS

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	290	°C	ISO 75-1/-2
^[C] Burning Behav. at 1.5 mm nom. thickn.	HB	class	IEC 60695-11-10
ASTM Data			
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
ISO Data			
^[C] Electric strength	28	kV/mm	IEC 60243-1
^[C] Comparative tracking index	600	-	IEC 60112
ASTM Data			
Dielectric Strength, Short Time	30	kV/mm	ASTM D 149
Volume Resistivity	>1E15	Ohm*cm	ASTM D 257

[C]: CAMPUS

Other properties	Value	Unit	Test Standard
^[C] Water absorption	0.18	%	Sim. to ISO 62
^[C] Density	1370	kg/m ³	ISO 1183
Density	1370	kg/m ³	ASTM D 792

[C]: CAMPUS

Characteristics**Processing**

Injection Molding

Delivery form

Pellets

Special Characteristics

Flame retardant, Halogen-free, Heat stabilized or stable to heat

Features

Weldable

Regional Availability

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