

Product Texts

GENESTAR G1500A-M61 is a standard 50% GF reinforced injection molding grade provided as pellets.

The main features are:

- Performance at high temperatures
- Low water absorption and retention of its initial properties
- Dimensional stability

This grade is suitable for:

- Brush holders
- Intercooler tanks
- Structural parts in harsh chemical environments

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
^[C] Molding shrinkage, parallel	0.2	%	ISO 294-4, 2577
^[C] Molding shrinkage, normal	0.8	%	ISO 294-4, 2577

[C]: CAMPUS

Mechanical properties	Value	Unit	Test Standard
ISO Data			
^[C] Tensile Modulus	16400	MPa	ISO 527
^[C] Stress at break	250	MPa	ISO 527
^[C] Strain at break	2	%	ISO 527
^[C] Charpy notched impact strength, +23°C	17	kJ/m ²	ISO 179/1eA

[C]: CAMPUS

Thermal properties	Value	Unit	Test Standard
ISO Data			
^[C] Melting temperature, 10°C/min	300	°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	275	°C	ISO 75-1/-2

ASTM Data

Coefficient of Thermal Expansion, MD	16	E-6/K	ASTM D 696
Coefficient of Thermal Expansion, TD	36	E-6/K	ASTM D 696

[C]: CAMPUS

Other properties	Value	Unit	Test Standard
^[C] Water absorption	0.13	%	Sim. to ISO 62
^[C] Density	1580	kg/m ³	ISO 1183

[C]: CAMPUS

Characteristics**Processing**

Injection Molding

Features

Barrier Properties, Creep Resistance, Fatigue Resistance, High Crystallinity, Thermal Stability, Weldable

Delivery form

Black

Additives

Release agent

Special Characteristics

Heat stabilized or stable to heat

Chemical Resistance

Acid Resistance, Alkali Resistance, General Chemical Resistance, Environmental Stress Crack Resistance, Solvent Resistance, Grease Resistance, Hydrolytically Stable, Oil Resistance

Applications

Automotive, General Purpose

Regional Availability

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