Genestar™ GX1500A-M41

PA9T-GF50 — Kuraray Co., Ltd.

Product Texts

GENESTAR GX1500A-M41 is a 50% GF reinforced injection molding grade provided as pellets. GX1500A-M41 is developed to exhibit superior mechanical properties in the normal direction of molding and is also suited for warpage sensitive parts.

The main features are:

- Low warpage
- High mechanical properties in normal direction to the flow

GX1500A-M41 is suitable for:

- Structural parts and housings
- Metal replacement

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
[C] Molding shrinkage, parallel	**0.1**	%	ISO 294-4, 2577
[C] Molding shrinkage, normal	**0.5**	%	ISO 294-4, 2577

[C]: CAMPUS

Mechanical properties	Value	Unit	Test Standard
ISO Data			
[C] Tensile Modulus	**16700**	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/m²	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	**280**	°C	ISO 75-1/-2
ASTM Data			
Coefficient of Thermal Expansion, MD	**15**	E-6/K	ASTM D 696
Coefficient of Thermal Expansion, TD	**24**	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/m³	ISO 1183

[C]: CAMPUS

Characteristics

Processing

Injection Molding

Delivery form

Black

Additives

Release agent

Features

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

Chemical Resistance

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

Special Characteristics
Heat stabilized or stable to heat

Applications
Automotive, General Purpose

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