Genestar™ G1300A-M41

PA9T-GF30 — Kuraray Co., Ltd.

Product Texts

G1300A-M41 (black, natural) is a standard 30% GF reinforced injection molding grade provided as pellets.

The main features are:

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

This grade is suitable for:

- Gears and bearing retainers
- Parts in harsh chemical and thermal environments

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
[C] Molding shrinkage, parallel	**0.3**	%	ISO 294-4, 2577
[C] Molding shrinkage, normal	**0.9**	%	ISO 294-4, 2577

[C]: CAMPUS

Mechanical properties	Value	Unit	Test Standard
ISO Data			
[C] Tensile Modulus	**9740**	MPa	ISO 527
[C] Stress at break	**190**	MPa	ISO 527
[C] Strain at break	**2.5**	%	ISO 527
[C] Charpy notched impact strength, +23°C	**10**	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	**270**	°C	ISO 75-1/-2
ASTM Data			
Coefficient of Thermal Expansion, MD	**24**	E-6/K	ASTM D 696
Coefficient of Thermal Expansion, TD	**41**	E-6/K	ASTM D 696

[C]: CAMPUS

Other properties	Value	Unit	Test Standard
[C] Water absorption	**0.19**	%	Sim. to ISO 62
[C] Density	**1370**	kg/m³	ISO 1183

[C]: CAMPUS

Characteristics

Processing

Injection Molding

Delivery form

Black, Natural Color

Additives

Release agent

Features

Barrier Properties, Creep Resistance, Fatigue Resistance, High Crystallinity, 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