Genestar™ G1301A-M61

PA9T-I-GF30 — Kuraray Co., Ltd.

Product Texts

Genestar G1301A-M61 Black is toughened 30%GF reinforced injection moulding grade.
The main features are:

- Performance at high temperatures
- Low water absorption and retention of its initial properties
- Ductility and impact strength

This grade is suitable for:

- Quick connector
- Structural parts in harsh chemical and thermal environments that require a certain ductility.

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	**8980**	MPa	ISO 527
[C] Stress at break	**175**	MPa	ISO 527
[C] Strain at break	**3**	%	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	**270**	°C	ISO 75-1/-2
ASTM Data			
Coefficient of Thermal Expansion, MD	**20**	E-6/K	ASTM D 696
Coefficient of Thermal Expansion, TD	**46**	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	**1340**	kg/m³	ISO 1183

[C]: CAMPUS

Characteristics

Processing
Injection Molding

Delivery form
Black

Features
Barrier Properties, Creep Resistance, Fatigue Resistance, High Crystallinity, Thermal Stability, Tribologic Grade, Weldable

Chemical Resistance
Acid Resistance, Alkali Resistance, General Chemical Resistance, Environmental Stress Crack Resistance, Solvent Resistance,

Additives
Lubricants, Release agent

Special Characteristics
High impact or impact modified, Heat stabilized or stable to heat

Grease Resistance, Hydrolytically Stable, Oil Resistance

Applications
Automotive, General Purpose

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