

Product Texts

GENESTAR G1350A-M42 is a 35% GF reinforced injection molding grade provided as pellets. G1350A-M42 exhibits an improved hydrolysis and coolant fluid resistance.

The main features are:

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

G1350A-M42 is suitable for coolant related parts.

Processing/Physical Characteristics	Value	Unit	Test Standard
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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
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ISO Data

^[C] Tensile Modulus	11000	MPa	ISO 527
^[C] Stress at break	200	MPa	ISO 527
^[C] Strain at break	2.5	%	ISO 527
^[C] Charpy notched impact strength, +23°C	12	kJ/m ²	ISO 179/1eA

[C]: CAMPUS

Thermal properties	Value	Unit	Test Standard
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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	19	E-6/K	ASTM D 696
Coefficient of Thermal Expansion, TD	39	E-6/K	ASTM D 696

[C]: CAMPUS

Electrical properties	Value	Unit	Test Standard
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ISO Data

^[C] Electric strength	29	kV/mm	IEC 60243-1
^[C] Comparative tracking index	600	-	IEC 60112

[C]: CAMPUS

Other properties	Value	Unit	Test Standard
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^[C] Water absorption	0.19	%	Sim. to ISO 62
^[C] Density	1400	kg/m ³	ISO 1183

[C]: CAMPUS

Characteristics

Processing

Injection Molding

Delivery form

Pellets, Black

Additives

Release agent

Special Characteristics

Heat stabilized or stable to heat

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

Applications

Automotive, General Purpose

Regional Availability

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