

Genestar™ G1350A-M42

Polyamide 9T
Kuraray Co., Ltd.

Message:

Genestar G1350A-M42 is a 35% glass reinforced injection grade. This grade was developed specifically for improved performance in a 50/50 ethylene glycol and water environment.
Main feature of G1350A-M42 are;
Hydrolysis resistance
Heat resistance
Chemical resistance
Examples of application are;
Thermostat housings
Water inlets, outlets, and valves

General Information	
Filler / Reinforcement	Glass Fiber,35% Filler by Weight
Features	Good Chemical Resistance
	High Heat Resistance
	Hydrolysis Resistant
Uses	Automotive Applications
	Housings
	Valves/Valve Parts
Appearance	Black
Processing Method	Injection Molding
Multi-Point Data	Isothermal Stress vs. Strain (ISO 11403-1)
	Tensile Modulus vs. Temperature (ISO 11403-1)

Physical	Nominal Value	Unit	Test Method
Density	1.40	g/cm ³	ISO 1183
Molding Shrinkage			ISO 294-4
Across Flow	0.90	%	
Flow	0.30	%	
Water Absorption (23°C, 24 hr)	0.19	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress	200	MPa	ISO 527-2
Tensile Strain (Break)	2.5	%	ISO 527-2
Flexural Modulus	10000	MPa	ISO 178
Flexural Stress	285	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength	12	kJ/m ²	ISO 179/1eA
Thermal	Nominal Value	Unit	Test Method

Heat Deflection Temperature (1.8 MPa, Unannealed)	270	°C	ISO 75-2/Af
Glass Transition Temperature	125	°C	
Melting Temperature	300	°C	ISO 11357-3

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