

# Genestar™ G1350H

Polyamide 9T

Kuraray Co., Ltd.

## Message:

The G1300H and G1350H are suitable for use in a wide range of electrical and electronics components as UL94 HB flammability rating, while the G1302 grade delivers low friction. HB grades do not contain halogen-containing flame-retardants. The GW1458HF offers low warpage and high flow-ability.

\*'Halogen free' follows the standards that Br is less than 900ppm, Cl is less than 900ppm, and total of halogen amount (Br and Cl) is less than 1500ppm.

General Information			
UL YellowCard	E90350-252513		
Filler / Reinforcement	Glass Fiber,35% Filler by Weight		
Features	Halogen Free		
Uses	Electrical Parts		
	Electrical/Electronic Applications		

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.40	g/cm <sup>3</sup>	
Melt Mass-Flow Rate (MFR) (320°C/2.16 kg)	42	g/10 min	ASTM D1238
Molding Shrinkage			
Flow : 1.00 mm	0.20	%	
Across Flow : 1.00 mm	0.80	%	
Water Absorption <sup>1</sup> (Equilibrium, 40°C, 95%RH)	1.4	%	

Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	180	MPa	ASTM D638
Tensile Elongation (Break)	4.0	%	ASTM D638
Flexural Modulus	10000	MPa	ASTM D790
Flexural Strength	230	MPa	ASTM D790

Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	120	J/m	ASTM D256

Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	290	°C	ASTM D648
Glass Transition Temperature	125	°C	
Melting Temperature	306	°C	

Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+16	ohms · cm	ASTM D257
Dielectric Strength	30	kV/mm	ASTM D149
Dielectric Constant (10.0 GHz)	3.40		ASTM D150
Dissipation Factor (10.0 GHz)	9.0E-3		ASTM D150
Comparative Tracking Index (CTI)	PLC 0		UL 746

Flammability	Nominal Value	Unit	Test Method
Flame Rating	HB		UL 94
Additional Information	Nominal Value	Unit	Test Method
Bar Flow Length <sup>2</sup> (320°C, 500.0 μm)	5.30	cm	
Weld Elongation	0.60	%	ASTM D638
Weld Strength	45.0	MPa	ASTM D638
NOTE			
1.	96 hrs		
2.	750kgf		

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