

Genestar™ GW2458HF

Polyamide 9T

Kuraray Co., Ltd.

Message:

GW2458HF is suited for low warpage and high flow applications, making it well suited for card connectors.

General Information		
UL YellowCard	E90350-252525	E90350-252527
Filler / Reinforcement	Glass Fiber,45% Filler by Weight	
Features	High Flow	
	Low Warpage	
Uses	Connectors	
	Electrical/Electronic Applications	

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.73	g/cm ³	
Melt Mass-Flow Rate (MFR) (320°C/2.16 kg)	84	g/10 min	ASTM D1238
Molding Shrinkage			
Flow : 1.00 mm	0.030	%	
Across Flow : 1.00 mm	0.40	%	
Water Absorption ¹ (Equilibrium, 40°C, 95%RH)	0.80	%	

Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	165	MPa	ASTM D638
Tensile Elongation (Break)	3.5	%	ASTM D638
Flexural Modulus	15000	MPa	ASTM D790
Flexural Strength	225	MPa	ASTM D790

Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	130	J/m	ASTM D256

Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	285	°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)	3.80		ASTM D150
Dissipation Factor (10.0 GHz)	0.010		ASTM D150

Comparative Tracking Index (CTI)	PLC 0		UL 746
Flammability	Nominal Value	Unit	Test Method
Flame Rating	V-0		UL 94
Additional Information	Nominal Value	Unit	Test Method
Bar Flow Length ² (320°C, 500.0 μm)	7.10	cm	
Weld Elongation	0.30	%	ASTM D638
Weld Strength	35.0	MPa	ASTM D638
NOTE			
1.	96 hrs		
2.	750kgf		

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