

Genestar™ GN2450

Polyamide 9T

Kuraray Co., Ltd.

Message:

GN2450 features high strength and modulus. It is well suited for FPC sliders and IC sockets, as well as other components that require modulus and dimensional precision.

General Information			
UL YellowCard	E90350-588641		
Filler / Reinforcement	Glass Fiber,45% Filler by Weight		
Features	High Strength		
Uses	Electrical Parts		
	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)	15	g/10 min	ASTM D1238
Molding Shrinkage			
Flow : 1.00 mm	0.10	%	
Across Flow : 1.00 mm	0.50	%	
Water Absorption ¹ (Equilibrium, 40°C, 95%RH)	0.70	%	

Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	200	MPa	ASTM D638
Tensile Elongation (Break)	4.1	%	ASTM D638
Flexural Modulus	14000	MPa	ASTM D790
Flexural Strength	270	MPa	ASTM D790

Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	110	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)	3.70	cm	
Weld Elongation	0.40	%	ASTM D638
Weld Strength	40.0	MPa	ASTM D638
NOTE			
1.	96 hrs		
2.	750kgf		

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