

Amilan® CM3511G50

Polyamide Copolymer

Toray Resin Company

Message:

Amilan® CM3511G50 is a Polyamide Copolymer (Nylon Copolymer) product filled with 50% glass fiber. It is available in Asia Pacific, Europe, or North America.

Characteristics include:

Flame Rated

Copolymer

Good Aesthetics

High Flow

General Information			
UL YellowCard	E41797-100721834		
Filler / Reinforcement	Glass Fiber,50% Filler by Weight		
Features	Copolymer		
	High Flow		
	Pleasing Surface Appearance		
Part Marking Code	>PA-GF50<		
Physical	Nominal Value	Unit	Test Method
Density (23°C)	1.59	g/cm ³	ISO 1183
Molding Shrinkage			Internal Method
Across Flow : 3.00 mm ¹	0.50 to 0.70	%	
Flow : 3.00 mm ²	0.20 to 0.40	%	
Water Absorption (23°C, 24 hr)	0.30	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress (23°C)	210	MPa	ISO 527-2
Tensile Strain (Break, 23°C)	3.2	%	ISO 527-2
Flexural Modulus (23°C)	14500	MPa	ISO 178
Flexural Stress (23°C)	320	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	28	kJ/m ²	ISO 179
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (0.45 MPa, Unannealed)	215	°C	ISO 75-2/B
Melting Temperature	216	°C	DSC
CLTE - Flow	2.0E-5 to 3.0E-5	cm/cm/°C	ISO 11359-2
Specific Heat	1500	J/kg/°C	
Thermal Conductivity	0.40	W/m/K	
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+12 to 1.0E+13	ohms · cm	IEC 60093

Flammability	Nominal Value	Unit	Test Method
Flame Rating	HB		UL 94
NOTE			
1.	80x80x3		
2.	80x80x3mm		

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