

HiFill® PA12 GF50 L

Polyamide 12

Techmer Engineered Solutions

Message:

HiFill® PA12 GF50 L is a Polyamide 12 (Nylon 12) product filled with 50% glass fiber. It can be processed by injection molding and is available in North America. Primary characteristic: lubricated.

General Information			
Filler / Reinforcement	Glass Fiber,50% Filler by Weight		
Additive	Lubricant		
Features	Lubricated		
Appearance	Colors Available		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.48	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	0.20	%	ASTM D955
Water Absorption (24 hr)	0.10	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break)	170	MPa	ASTM D638
Tensile Elongation (Break)	4.0	%	ASTM D638
Flexural Modulus	11700	MPa	ASTM D790
Flexural Strength	253	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.18 mm)	150	J/m	ASTM D256
Unnotched Izod Impact (3.18 mm)	No Break		ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	181	°C	
1.8 MPa, Unannealed	166	°C	
CLTE - Flow	1.4E-5	cm/cm/°C	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+12	ohms	ASTM D257
Dielectric Strength ¹	18	kV/mm	ASTM D149
NOTE			
1.	Method A (Short-Time)		

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