

HiFill® PA12 GF20 L

Polyamide 12

Techmer Engineered Solutions

Message:

HiFill® PA12 GF20 L is a Polyamide 12 (Nylon 12) product filled with 20% glass fiber. It can be processed by injection molding and is available in North America.

General Information			
Filler / Reinforcement	Glass Fiber,20% Filler by Weight		
Appearance	Colors Available		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.17	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	0.10	%	ASTM D955
Water Absorption (24 hr)	0.12	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	121		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	93.1	MPa	ASTM D638
Tensile Elongation (Break)	5.5	%	ASTM D638
Flexural Modulus	4480	MPa	ASTM D790
Flexural Strength	128	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.18 mm)	210	J/m	ASTM D256
Unnotched Izod Impact (3.18 mm)	1200	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	199	°C	
1.8 MPa, Unannealed	159	°C	
CLTE - Flow	2.9E-5	cm/cm/°C	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+12	ohms · cm	ASTM D257
Dielectric Strength ¹	18	kV/mm	ASTM D149
Injection	Nominal Value	Unit	
Drying Temperature	82.2	°C	
Drying Time	4.0	hr	
Rear Temperature	260 to 304	°C	
Middle Temperature	260 to 304	°C	
Front Temperature	260 to 304	°C	

Processing (Melt) Temp	243 to 271	°C
Mold Temperature	65.6 to 93.3	°C
Back Pressure	0.00 to 0.345	MPa
Screw Speed	30 to 60	rpm

NOTE

1.
- Method A (Short-Time)

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Recommended distributors for this material

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