

# HiFill® PA6 GF18 HS L

Polyamide 6  
Techmer Engineered Solutions

Message:

HiFill® PA6 GF18 HS L is a Polyamide 6 (Nylon 6) product filled with 18% glass fiber. It can be processed by injection molding and is available in North America.

Characteristics include:

Heat Stabilizer  
Lubricated

General Information			
Filler / Reinforcement	Glass Fiber,18% Filler by Weight		
Additive	Heat Stabilizer Lubricant		
Features	Heat Stabilized Lubricated		
Appearance	Colors Available		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.29	g/cm <sup>3</sup>	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	0.50	%	ASTM D955
Water Absorption (24 hr)	1.4	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	115		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break)	138	MPa	ASTM D638
Tensile Elongation (Break)	3.6	%	ASTM D638
Flexural Modulus	6890	MPa	ASTM D790
Flexural Strength	207	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.18 mm)	80	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	213	°C	
1.8 MPa, Unannealed	204	°C	
CLTE - Flow	2.0E-5	cm/cm/°C	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+15	ohms · cm	ASTM D257

Dielectric Strength <sup>1</sup>	16	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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