HiFill® PA6 GF50 LE

Polyamide 6

Techmer Engineered Solutions

Message:

HiFill® PA6 GF50 LE is a Polyamide 6 (Nylon 6) product filled with 50% glass fiber. It can be processed by injection molding and is available in North America. Typical application: Food Contact Applications. Primary characteristic: lubricated.

General Information						
Filler / Reinforcement		Glass Fiber,50% Filler by Weight				
Additive		Lubricant				
Features		Low Extractables				
		Lubricated				
Agency Ratings		FDA Unspecified Rating				
Appearance		Colors Available				
Forms		Pellets				
Processing Method		Injection Molding				
Physical	Dry	Conditioned	Unit	Test Method		
Specific Gravity	1.57		g/cm³	ASTM D792		
Molding Shrinkage - Flow	0.20		0/	ACTA A DOSS		
(3.18 mm)	0.30		%	ASTM D955		
Water Absorption (24 hr)	0.75		% 	ASTM D570		
Hardness	Dry	Conditioned	Unit	Test Method		
Rockwell Hardness (R-Scale)	121			ASTM D785		
Mechanical	Dry	Conditioned	Unit	Test Method		
Tensile Strength (Break)	221	193	MPa	ASTM D638		
Tensile Elongation (Break)	2.5	4.0	%	ASTM D638		
Flexural Modulus	14100	10700	МРа	ASTM D790		
Flexural Strength	290	269	МРа	ASTM D790		
Impact	Dry	Conditioned	Unit	Test Method		
Notched Izod Impact (23°C, 3.18 mm)	160	270	J/m	ASTM D256		
Unnotched Izod Impact (3.18 mm)	1100 J/m	No Break		ASTM D256		
Thermal	Dry	Conditioned	Unit	Test Method		
Deflection Temperature Under Load				ASTM D648		
0.45 MPa, Unannealed	218		°C			
1.8 MPa, Unannealed	216		°C			
CLTE - Flow	1.4E-5		cm/cm/°C	ASTM D696		
Electrical	Dry	Conditioned	Unit	Test Method		

Volume Resistivity	1.0E+15		ohms·cm	ASTM D257
Dielectric Strength ¹	18		kV/mm	ASTM D149
Injection	Dry	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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