HiFill FR® PA6 GF15 FR-N

Polyamide 6

Techmer Engineered Solutions

Message:

HiFill FR® PA6 GF15 FR-N is a Polyamide 6 (Nylon 6) product filled with 15% glass fiber. It can be processed by injection molding and is available in North America.

Characteristics include:

Flame Rated

Flame Retardant

Halogen Free

Heat Stabilizer

Lubricated

General Information					
Filler / Reinforcement	Glass Fiber,15% Filler by Weight				
Additive	Heat Stabilizer				
	Lubricant				
Features	Flame Retardant				
	Halogen Free				
	Heat Stabilized				
	Lubricated				
Appearance	Colors Available				
	Natural Color				
	Red				
Forms	Pellets				
Processing Method	Injection Molding				
Physical	Nominal Value	Unit	Test Method		
Specific Gravity	1.26	g/cm³	ASTM D792		
Molding Shrinkage - Flow (3.18 mm)	0.70	%	ASTM D955		
Water Absorption (24 hr)	1.4	%	ASTM D570		
Hardness	Nominal Value	Unit	Test Method		
Rockwell Hardness (R-Scale)	120		ASTM D785		
Mechanical	Nominal Value	Unit	Test Method		
Tensile Strength (Break)	96.5	MPa	ASTM D638		
Tensile Elongation (Break)	4.0	%	ASTM D638		
Flexural Modulus	3100	MPa	ASTM D790		
Flexural Strength	145	MPa	ASTM D790		
Impact	Nominal Value	Unit	Test Method		
Notched Izod Impact (23°C, 3.18 mm)	53	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	196	°C	
CLTE - Flow	4.3E-5	cm/cm/°C	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+15	ohms·cm	ASTM D257
Dielectric Strength ¹	20	kV/mm	ASTM D149
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.50 mm)	V-0		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	82.2	°C	
Drying Time	2.0 to 4.0	hr	
Rear Temperature	232 to 257	°C	
Middle Temperature	232 to 257	°C	
Front Temperature	232 to 257	°C	
Processing (Melt) Temp	238 to 266	°C	
Mold Temperature	65.6 to 93.3	°C	
Back Pressure	0.345 to 0.689	MPa	
Screw Speed	30 to 60	rpm	
NOTE			
1.	Method A (Short-Time)		

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