

HiFill FR® PA6 FR-N IM

Polyamide 6
Techmer Engineered Solutions

Message:

HiFill FR® PA6 FR-N IM is a Polyamide 6 (Nylon 6) product. It can be processed by injection molding and is available in North America.
Characteristics include:
Flame Rated
Flame Retardant
Halogen Free
Heat Stabilizer
Impact Modified

General Information			
Additive	Heat Stabilizer		
	Impact Modifier		
	Lubricant		
Features	Flame Retardant		
	Halogen Free		
	Heat Stabilized		
	High Impact Resistance		
	Lubricated		
Appearance	Colors Available		
	Red		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.08	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	1.3	%	ASTM D955
Water Absorption (24 hr)	1.5	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	105		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	50.3	MPa	ASTM D638
Tensile Elongation (Break)	200	%	ASTM D638
Flexural Modulus	1720	MPa	ASTM D790
Flexural Strength	65.5	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.18 mm)	850	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	166	°C	
1.8 MPa, Unannealed	51.7	°C	
CLTE - Flow	9.9E-5	cm/cm/°C	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	2.0E+13	ohms·cm	ASTM D257
Dielectric Strength ¹	17	kV/mm	ASTM D149
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.800 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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