

# HiFill FR® PA4/6 GF30 FR HS X

Polyamide 46

Techmer Engineered Solutions

Message:

HiFill FR® PA4/6 GF30 FR HS X is a Polyamide 46 (Nylon 46) product filled with 30% glass fiber. It can be processed by injection molding and is available in North America.

Characteristics include:

- Flame Rated
- Flame Retardant
- Heat Stabilizer

General Information				
Filler / Reinforcement		Glass Fiber,30% Filler by Weight		
Additive		Heat Stabilizer		
Features		Flame Retardant		
		Heat Stabilized		
UL File Number		E157318		
Appearance		Colors Available		
Forms		Pellets		
Processing Method		Injection Molding		
Physical	Dry	Conditioned	Unit	Test Method
Specific Gravity	1.68	1.68	g/cm <sup>3</sup>	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	0.50	0.50	%	ASTM D955
Water Absorption (24 hr)	0.90	0.90	%	ASTM D570
Hardness	Dry	Conditioned	Unit	Test Method
Rockwell Hardness (R-Scale)	100	100		ASTM D785
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Strength (Break)	124	124	MPa	ASTM D638
Tensile Elongation (Break)	3.8	3.8	%	ASTM D638
Flexural Modulus	8270	8270	MPa	ASTM D790
Flexural Strength	190	190	MPa	ASTM D790
Impact	Dry	Conditioned	Unit	Test Method
Notched Izod Impact (23°C, 3.18 mm)	100	100	J/m	ASTM D256
Thermal	Dry	Conditioned	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	290	123	°C	ASTM D648
CLTE - Flow	3.6E-5	3.6E-5	cm/cm/°C	ASTM D696
Electrical	Dry	Conditioned	Unit	Test Method

Volume Resistivity	1.0E+15	1.0E+10	ohms·cm	ASTM D257
Dielectric Strength <sup>1</sup>	24	24	kV/mm	ASTM D149
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating	V-0	V-0		UL 94
NOTE				

1. Method A (Short-Time)

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#### Recommended distributors for this material

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