

## HiFill FR® PA4/6 GF30 FR HS X

Techmer Polymer Modifiers - Polyamide 46

### General

Material Status	• Commercial: Active
Availability	• North America
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

### Properties <sup>1</sup>

	Nominal Value	Unit	Test Method
<b>Physical</b>			
Density / Specific Gravity	1.68		ASTM D792
Molding Shrinkage - Flow (0.125 in)	5.0E-3	in/in	ASTM D955
Water Absorption (24 hr)	0.90	%	ASTM D570
<b>Mechanical</b>			
Tensile Strength (Break)	18000	psi	ASTM D638
Tensile Elongation (Break)	3.8	%	ASTM D638
Flexural Modulus	1.20E+6	psi	ASTM D790
Flexural Strength	27600	psi	ASTM D790
<b>Impact</b>			
Notched Izod Impact (73°F, 0.125 in)	1.9	ft-lb/in	ASTM D256
<b>Hardness</b>			
Rockwell Hardness (R-Scale)	100		ASTM D785
<b>Thermal</b>			
Deflection Temperature Under Load (264 psi, Unannealed)	554	°F	ASTM D648
CLTE - Flow	2.0E-5	in/in/°F	ASTM D696
<b>Electrical</b>			
Volume Resistivity	1.0E+15	ohms·cm	ASTM D257
Dielectric Strength (Method A (Short-Time))	610	V/mil	ASTM D149
<b>Flammability</b>			
Flame Rating	V-0		UL 94

