

HiFill® PA4/6 GF30 HS BK

Techmer Polymer Modifiers - *Polyamide 46*

General Information

General

Material Status	• Commercial: Active
Availability	• North America
Filler / Reinforcement	• Glass Fiber, 30% Filler by Weight
Additive	• Heat Stabilizer
Features	• Heat Stabilized
UL File Number	• E157318
Appearance	• Black
Forms	• Pellets
Processing Method	• Injection Molding

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.41		ASTM D792
Molding Shrinkage - Flow (0.125 in)	5.0E-3	in/in	ASTM D955
Water Absorption (24 hr)	2.6	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	17000	psi	ASTM D638
Tensile Elongation (Yield)	7.5	%	ASTM D638
Flexural Modulus	670000	psi	ASTM D790
Flexural Strength (Yield)	27000	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (0.125 in)	3.4	ft·lb/in	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (264 psi, Unannealed)	545	°F	ASTM D648
CLTE - Flow	4.1E-5	in/in/°F	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+12	ohms·cm	ASTM D257
Dielectric Strength (Method A (Short-Time))	700	V/mil	ASTM D149
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.06 in)	HB		UL 94

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	185	°F
Drying Time	4.0 to 8.0	hr
Rear Temperature	540 to 600	°F
Middle Temperature	540 to 600	°F
Front Temperature	540 to 600	°F
Processing (Melt) Temp	475 to 600	°F
Mold Temperature	190 to 260	°F
Back Pressure	0.00 to 50.0	psi
Screw Speed	40 to 80	rpm

