

# HiFill® PA4/6 GF5 IM HS BK

Polyamide 46

Techmer Engineered Solutions

Message:

HiFill® PA4/6 GF5 IM HS BK is a Polyamide 46 (Nylon 46) product filled with 5.0% glass fiber. It can be processed by injection molding and is available in North America.

Characteristics include:

- Flame Rated
- Heat Stabilizer
- Impact Modified
- Impact Resistant

General Information			
Filler / Reinforcement	Glass Fiber,5.0% Filler by Weight		
Additive	Heat Stabilizer		
	Impact Modifier		
Features	Heat Stabilized		
	High Impact Resistance		
Appearance	Black		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.17	g/cm <sup>3</sup>	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	1.0	%	ASTM D955
Water Absorption (24 hr)	2.6	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break)	48.3	MPa	ASTM D638
Tensile Elongation (Break)	9.5	%	ASTM D638
Flexural Modulus	2900	MPa	ASTM D790
Flexural Strength	96.5	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.18 mm)	80	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	160	°C	ASTM D648
CLTE - Flow	5.8E-5	cm/cm/°C	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+11	ohms · cm	ASTM D257
Dielectric Strength <sup>1</sup>	28	kV/mm	ASTM D149
Flammability	Nominal Value	Unit	Test Method

Flame Rating (1.50 mm)	HB	UL 94
Injection	Nominal Value	Unit
Drying Temperature	85.0	°C
Drying Time	4.0 to 8.0	hr
Rear Temperature	282 to 316	°C
Middle Temperature	282 to 316	°C
Front Temperature	282 to 316	°C
Processing (Melt) Temp	246 to 316	°C
Mold Temperature	87.8 to 127	°C
Back Pressure	0.00 to 0.345	MPa
Screw Speed	40 to 80	rpm
NOTE		

- Method A (Short-Time)

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#### Recommended distributors for this material

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