

# HiFill® PA4/6 CF40 HS

Polyamide 46

Techmer Engineered Solutions

## Message:

HiFill® PA4/6 CF40 HS is a Polyamide 46 (Nylon 46) product filled with 40% carbon fiber. It can be processed by injection molding and is available in North America.

Characteristics include:

Flame Rated

Heat Stabilizer

General Information				
Filler / Reinforcement		Carbon Fiber,40% Filler by Weight		
Additive		Heat Stabilizer		
Features		Heat Stabilized		
Appearance		Black		
Forms		Pellets		
Processing Method		Injection Molding		
Physical	Dry	Conditioned	Unit	Test Method
Specific Gravity	1.35	--	g/cm <sup>3</sup>	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	0.20	--	%	ASTM D955
Water Absorption (24 hr)	1.9	--	%	ASTM D570
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Strength (Break)	276	214	MPa	ASTM D638
Tensile Elongation (Break)	1.5	3.5	%	ASTM D638
Flexural Modulus	26900	21400	MPa	ASTM D790
Flexural Strength	434	352	MPa	ASTM D790
Impact	Dry	Conditioned	Unit	Test Method
Notched Izod Impact (23°C, 3.18 mm)	80	100	J/m	ASTM D256
Thermal	Dry	Conditioned	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	285	--	°C	ASTM D648
CLTE - Flow	2.0E-5	--	cm/cm/°C	ASTM D696
Electrical	Dry	Conditioned	Unit	Test Method
Volume Resistivity	10	--	ohms · cm	ASTM D257
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating (1.50 mm)	HB	--		UL 94
Injection	Dry	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

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519  
Phone: +86 13424755533  
Email: sales@su-jiao.com  
No. 215, Lianhe North Road, Fengxian District, Shanghai, China

