

HiFill FR® PA6/6 GF50 FR-N BK

Polyamide 66

Techmer Engineered Solutions

Message:

HiFill FR® PA6/6 GF50 FR-N BK is a Polyamide 66 (Nylon 66) product filled with 50% glass fiber. It can be processed by injection molding and is available in North America.

Characteristics include:

- Flame Rated
- Flame Retardant
- Halogen Free

General Information			
Filler / Reinforcement	Glass Fiber,50% Filler by Weight		
Features	Flame Retardant		
	Halogen Free		
Appearance	Black		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.69	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	0.20	%	ASTM D955
Water Absorption (24 hr)	0.35	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	121		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break)	207	MPa	ASTM D638
Tensile Elongation (Break)	2.0	%	ASTM D638
Flexural Modulus	16500	MPa	ASTM D790
Flexural Strength	303	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.18 mm)	130	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	260	°C	ASTM D648
CLTE - Flow	1.6E-5	cm/cm/°C	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+14	ohms · cm	ASTM D257
Dielectric Strength ¹	2.0	kV/mm	ASTM D149
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.800 mm)	V-1		UL 94
Injection	Nominal Value	Unit	

Drying Temperature	82.2	°C
Drying Time	> 6.0	hr
Rear Temperature	254 to 277	°C
Middle Temperature	254 to 277	°C
Front Temperature	254 to 277	°C
Processing (Melt) Temp	249 to 271	°C
Mold Temperature	65.6 to 93.3	°C
Back Pressure	0.345 to 0.689	MPa
Screw Speed	30 to 60	rpm
NOTE		

1. Method A (Short-Time)

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

