

# Electrafil® PA6/6 CF30 BK

Polyamide 66

Techmer Engineered Solutions

## Message:

Electrafil® PA6/6 CF30 BK is a polyamide 66 (nylon 66) product, which contains a 30% carbon fiber reinforced material. It can be processed by injection molding and is available in North America.

Features include:

flame retardant/rated flame

Conductivity

Lubrication

General Information			
Filler / Reinforcement	Carbon fiber reinforced material, 30% filler by weight		
Additive	Lubricant		
Features	Conductivity		
	Lubrication		
Appearance	Black		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.27	g/cm <sup>3</sup>	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	0.20	%	ASTM D955
Water Absorption (24 hr)	0.48	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale)	97		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break)	234	MPa	ASTM D638
Tensile Elongation (Break)	2.0 - 3.0	%	ASTM D638
Flexural Modulus	19300	MPa	ASTM D790
Flexural Strength	345	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.18 mm)	80	J/m	ASTM D256
Unnotched Izod Impact (3.18 mm)	640	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, not annealed	260	°C	ASTM D648
1.8 MPa, not annealed	257	°C	ASTM D648
Melting Temperature	263	°C	
CLTE - Flow	1.8E-5	cm/cm/°C	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+2 - 2.0E+2	ohms	ASTM D257

Flammability	Nominal Value	Unit	Test Method
Flame Rating	HB		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	82.2	°C	
Drying Time	2.0 - 4.0	hr	
Suggested Max Moisture	0.10	%	
Rear Temperature	282 - 293	°C	
Middle Temperature	288 - 299	°C	
Front Temperature	277 - 288	°C	
Nozzle Temperature	271 - 304	°C	
Processing (Melt) Temp	282 - 304	°C	
Mold Temperature	79.4 - 104	°C	
Injection Rate	Slow-Moderate		
Back Pressure	0.00 - 0.345	MPa	
Injection instructions			

Screw Speed: SlowRecommendations for Molding and Tool Conditions: Well vented moldMoisture Content, as received: Product is packaged at 0.2% or less.

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

