

Electrafil® PA6/6 IM C BK

Polyamide 66
Techmer Engineered Solutions

Message:

Electrafil® PA6/6 IM C BK is a Polyamide 66 (Nylon 66) product filled with filler. It can be processed by injection molding and is available in North America.

Characteristics include:

- Conductive
- Impact Modified
- Impact Resistant

General Information			
Filler / Reinforcement	Filler		
Additive	Impact Modifier		
Features	Conductive		
	High Impact Resistance		
Appearance	Black		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.20	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	1.2	%	ASTM D955
Water Absorption (24 hr)	0.90	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	99		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	75.8	MPa	ASTM D638
Tensile Elongation (Break)	2.0	%	ASTM D638
Flexural Modulus	3650	MPa	ASTM D790
Flexural Strength	131	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.18 mm)	110	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	199	°C	
1.8 MPa, Unannealed	138	°C	
CLTE - Flow	5.9E-5	cm/cm/°C	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+3 to 1.0E+6	ohms	ASTM D257
Volume Resistivity	1.0E+3 to 1.0E+6	ohms · cm	ASTM D257
Injection	Nominal Value	Unit	

Drying Temperature	82.2	°C
Drying Time	2.0 to 4.0	hr
Suggested Max Moisture	2.0 to 4.0	%
Rear Temperature	266 to 304	°C
Middle Temperature	266 to 304	°C
Front Temperature	266 to 304	°C
Processing (Melt) Temp	260 to 282	°C
Mold Temperature	65.6 to 93.3	°C
Back Pressure	0.345 to 0.689	MPa
Screw Speed	30 to 60	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

