

**Electrafil® PA6/6 GF20 C-3 BK**

Techmer Polymer Modifiers - Polyamide 66

**General**

Material Status	• Commercial: Active
Availability	• North America
Filler / Reinforcement	• Glass Fiber, 20% Filler by Weight
Features	• Conductive
Appearance	• Black
Processing Method	• Injection Molding

**Properties <sup>1</sup>**

<b>Physical</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Density / Specific Gravity	1.35		ASTM D792
Molding Shrinkage - Flow (0.125 in)	5.0E-3 to 7.0E-3	in/in	ASTM D955
<b>Mechanical</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Tensile Modulus	1.90E+6	psi	ASTM D638
Tensile Strength (Yield)	21500	psi	ASTM D638
Tensile Strength (Break)	21000	psi	ASTM D638
Tensile Elongation (Break)	> 2.0	%	ASTM D638
<b>Impact</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Notched Izod Impact (0.125 in)	1.3	ft·lb/in	ASTM D256
<b>Electrical</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Surface Resistivity	1.0E+2 to 1.0E+6	ohms	ASTM D257

**Processing Information**

<b>Injection</b>	<b>Nominal Value</b>	<b>Unit</b>
Drying Temperature	180	°F
Drying Time	2.0 to 3.0	hr
Rear Temperature	520 to 540	°F
Middle Temperature	530 to 550	°F
Front Temperature	540 to 560	°F
Nozzle Temperature	550 to 570	°F
Processing (Melt) Temp	525 to 570	°F
Mold Temperature	125 to 200	°F
Injection Rate	Moderate	
Back Pressure	0.00 to 50.0	psi
Screw Speed	Slow-Moderate	

