

**Electrafil® J-50/CF/10 BK223**

 Techmer Polymer Modifiers - *Polycarbonate*
**General Information**
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Material Status	<ul style="list-style-type: none"> <li>Commercial: Active</li> </ul>
Availability	<ul style="list-style-type: none"> <li>North America</li> </ul>
Filler / Reinforcement	<ul style="list-style-type: none"> <li>Carbon Fiber</li> </ul>
Features	<ul style="list-style-type: none"> <li>Conductive</li> </ul>
Appearance	<ul style="list-style-type: none"> <li>Black</li> </ul>
Processing Method	<ul style="list-style-type: none"> <li>Injection Molding</li> </ul>

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

<b>Physical</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Density / Specific Gravity	1.23		ASTM D792
Melt Mass-Flow Rate (MFR) (300°C/1.2 kg)	6.4	g/10 min	ASTM D1238
<b>Mechanical</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Tensile Modulus	1.16E+6	psi	ISO 527-1
Tensile Stress (Yield)	17100	psi	ISO 527-2
Tensile Strain (Break)	3.1	%	ISO 527-2
<b>Impact</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Notched Izod Impact (0.125 in)	3.1	ft-lb/in	ISO 180
<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
<b>Flammability</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Flame Rating			UL 94
0.06 in		HB	
0.12 in		HB	

**Processing Information**

<b>Injection</b>	<b>Nominal Value</b>	<b>Unit</b>
Drying Temperature	250	°F
Drying Time	2.0 to 4.0	hr
Rear Temperature	550 to 590	°F
Middle Temperature	560 to 600	°F
Front Temperature	570 to 610	°F
Nozzle Temperature	580 to 620	°F
Processing (Melt) Temp	560 to 625	°F
Mold Temperature	150 to 225	°F
Injection Rate	Slow-Moderate	
Back Pressure	0.00 to 50.0	psi
Screw Speed	Moderate	

**Notes**
<sup>1</sup> Typical properties: these are not to be construed as specifications.
