

**Electrafil® PC CF20**

 Techmer Polymer Modifiers - *Polycarbonate*
**General Information**
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Material Status	• Commercial: Active
Availability	• North America
Filler / Reinforcement	• Carbon Fiber, 20% Filler by Weight
Processing Method	• Injection Molding

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

<b>Mechanical</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Tensile Strength (Yield)	18000	psi	ASTM D638
Tensile Elongation (Break)	2.4	%	ASTM D638
Flexural Modulus	1.54E+6	psi	ASTM D790
Flexural Strength	25700	psi	ASTM D790
<b>Impact</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Notched Izod Impact (0.125 in)	1.6	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	250	°F
Drying Time	2.0 to 3.0	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 615	°F
Mold Temperature	200 to 275	°F
Injection Rate	Slow-Moderate	
Back Pressure	25.0 to 75.0	psi
Screw Speed	Moderate	

**Notes**

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

