

**Electrafil® PPA CF40 A**

 Techmer Polymer Modifiers - *Polyphthalamide*
**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>
Processing Method	<ul style="list-style-type: none"> <li>Injection Molding</li> </ul>

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

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.38		ASTM D792
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	30000	psi	ASTM D638
Tensile Elongation (Break)	0.90	%	ASTM D638
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (0.125 in)	1.0	ft·lb/in	ASTM D256
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	< 1.0E+6	ohms	ASTM D257

**Processing Information**

Injection	Nominal Value	Unit
Drying Temperature	200	°F
Drying Time	3.0 to 4.0	hr
Rear Temperature	580 to 620	°F
Middle Temperature	580 to 620	°F
Front Temperature	580 to 620	°F
Nozzle Temperature	580 to 620	°F
Processing (Melt) Temp	580 to 620	°F
Mold Temperature	250 to 300	°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.

