

**Electrafil® PP HO CF25**

 Techmer Polymer Modifiers - *Polypropylene Homopolymer*
**General Information**
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Material Status	• Commercial: Active
Availability	• North America
Filler / Reinforcement	• Carbon Fiber
Processing Method	• Injection Molding

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

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.03		ASTM D792
Molding Shrinkage - Flow (0.125 in)	7.0E-3 to 9.0E-3	in/in	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1.90E+6	psi	ASTM D638
Tensile Strength (Yield)	12300	psi	ASTM D638
Tensile Strength (Break)	12300	psi	ASTM D638
Tensile Elongation (Break)	1.0	%	ASTM D638
Flexural Modulus	1.70E+6	psi	ASTM D790
Flexural Strength	18700	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (0.125 in)	0.80	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	170	°F
Drying Time	2.0 to 3.0	hr
Rear Temperature	440 to 480	°F
Middle Temperature	450 to 490	°F
Front Temperature	460 to 500	°F
Nozzle Temperature	470 to 510	°F
Processing (Melt) Temp	450 to 515	°F
Mold Temperature	75 to 150	°F
Injection Rate	Moderate	
Back Pressure	0.00 to 50.0	psi
Screw Speed	Slow-Moderate	

**Notes**

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

