

Electrafil® PEI CF30

 Techmer Polymer Modifiers - *Polyetherimide*
General Information
General

Material Status	• Commercial: Active
Availability	• North America
Filler / Reinforcement	• Carbon Fiber, 30% Filler by Weight
Processing Method	• Injection Molding

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.40		ASTM D792
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1.80E+6	psi	ASTM D638
Tensile Strength (Yield)	21000	psi	ASTM D638
Tensile Elongation (Break)	1.7	%	ASTM D638
Flexural Modulus	1.70E+6	psi	ASTM D790
Flexural Strength	33000	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (0.125 in)	0.70	ft-lb/in	ASTM D256
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+2 to 1.0E+6	ohms	ASTM D257

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	275	°F
Drying Time	2.0 to 4.0	hr
Rear Temperature	650 to 710	°F
Middle Temperature	660 to 720	°F
Front Temperature	670 to 680	°F
Nozzle Temperature	680 to 735	°F
Processing (Melt) Temp	660 to 730	°F
Mold Temperature	250 to 325	°F
Injection Rate	Slow	
Back Pressure	0.00 to 50.0	psi
Screw Speed	Moderate	

