

Electrafil® POM CF15

Techmer Polymer Modifiers - Acetal (POM) Copolymer

General Information
General

Material Status	• Commercial: Active
Availability	• North America
Filler / Reinforcement	• Carbon Fiber, 15% Filler by Weight
Features	• Copolymer
Appearance	• Black
Forms	• Pellets
Processing Method	• Injection Molding

Properties ¹

	Nominal Value	Unit	Test Method
Physical			
Density / Specific Gravity	1.43		ASTM D792
Molding Shrinkage - Flow (0.125 in)	4.0E-3	in/in	ASTM D955
Water Absorption (24 hr)	0.25	%	ASTM D570
Mechanical			
Tensile Strength (Break)	12000	psi	ASTM D638
Tensile Elongation (Break)	2.0	%	ASTM D638
Flexural Modulus	1.20E+6	psi	ASTM D790
Flexural Strength	15400	psi	ASTM D790
Impact			
Notched Izod Impact (73°F, 0.125 in)	0.90	ft·lb/in	ASTM D256
Unnotched Izod Impact (0.125 in)	5.0	ft·lb/in	ASTM D4812
Hardness			
Rockwell Hardness (M-Scale)	84		ASTM D785
Thermal			
Deflection Temperature Under Load (66 psi, Unannealed)	320	°F	ASTM D648
Deflection Temperature Under Load (264 psi, Unannealed)	300	°F	ASTM D648
CLTE - Flow	2.1E-5	in/in/°F	ASTM D696
Electrical			
Volume Resistivity	1.0E+3 to 1.0E+4	ohms·cm	ASTM D257
Flammability			
Flame Rating (0.06 in)	HB		UL 94

Processing Information

	Nominal Value	Unit
Injection		
Drying Temperature	200	°F
Drying Time	2.0 to 3.0	hr
Rear Temperature	350 to 425	°F
Middle Temperature	350 to 425	°F
Front Temperature	350 to 425	°F
Processing (Melt) Temp	380 to 415	°F
Mold Temperature	170 to 225	°F
Back Pressure	50.0 to 100	psi
Screw Speed	30 to 60	rpm

