

Electrafil® J-80/CF/10/NatI

Techmer Polymer Modifiers - Acetal (POM) Copolymer

General

Material Status	• Commercial: Active
Availability	• Africa & Middle East • Europe • North America • Asia Pacific • Latin America
Filler / Reinforcement	• Carbon Fiber, 10% Filler by Weight
RoHS Compliance	• RoHS Compliant
Forms	• Pellets

Properties ¹

	Nominal Value	Unit	Test Method
Physical			
Density / Specific Gravity	1.43		ASTM D792
Molding Shrinkage - Flow	4.0E-3	in/in	ASTM D955
Water Absorption (24 hr)	0.26	%	ASTM D570
Mechanical			
Tensile Strength (Yield)	10500	psi	ASTM D638
Tensile Elongation (Yield)	2.5	%	ASTM D638
Flexural Modulus	1.00E+6	psi	ASTM D790
Flexural Strength (Yield)	14000	psi	ASTM D790
Impact			
Notched Izod Impact (73°F, 0.125 in)	0.80	ft-lb/in	ASTM D256
Thermal			
Deflection Temperature Under Load (264 psi, Unannealed)	320	°F	ASTM D648
Electrical			
Surface Resistivity	< 1.0E+6	ohms	ASTM D257

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

