

HiFill® POM CO 0150 S

Techmer Polymer Modifiers - Acetal (POM) Copolymer

General Information
General

Material Status	<ul style="list-style-type: none"> Commercial: Active
Availability	<ul style="list-style-type: none"> North America
Filler / Reinforcement	<ul style="list-style-type: none"> Metal
Features	<ul style="list-style-type: none"> Copolymer
Appearance	<ul style="list-style-type: none"> Colors Available
Forms	<ul style="list-style-type: none"> Pellets
Processing Method	<ul style="list-style-type: none"> Injection Molding

Properties ¹

	Nominal Value	Unit	Test Method
Physical			
Density / Specific Gravity	1.50		ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	9.0	g/10 min	ASTM D1238
Molding Shrinkage - Flow (0.125 in)	0.016	in/in	ASTM D955
Water Absorption (24 hr)	0.20	%	ASTM D570
Mechanical			
Tensile Strength (Yield)	7500	psi	ASTM D638
Tensile Elongation (Yield)	40	%	ASTM D638
Flexural Modulus	440000	psi	ASTM D790
Flexural Strength	12000	psi	ASTM D790
Impact			
Notched Izod Impact (73°F, 0.125 in)	1.1	ft·lb/in	ASTM D256
Hardness			
Rockwell Hardness (R-Scale)	100		ASTM D785
Thermal			
Deflection Temperature Under Load (66 psi, Unannealed)	320	°F	ASTM D648
Deflection Temperature Under Load (264 psi, Unannealed)	230	°F	ASTM D648
CLTE - Flow	1.2E-5	in/in/°F	ASTM D696
Electrical			
Volume Resistivity	1.0E+14	ohms·cm	ASTM D257

Processing Information

	Nominal Value	Unit
Injection		
Drying Temperature	160	°F
Drying Time	1.0	hr
Rear Temperature	350 to 380	°F
Middle Temperature	370 to 410	°F
Front Temperature	360 to 390	°F
Nozzle Temperature	350 to 400	°F
Processing (Melt) Temp	380 to 420	°F
Mold Temperature	180 to 250	°F

