

HiFill® POM HO GF10

Techmer Polymer Modifiers - Acetal (POM) Homopolymer

General Information

General

Material Status	• Commercial: Active
Availability	• North America
Filler / Reinforcement	• Glass Fiber
Features	• Homopolymer
Appearance	• Colors Available
Processing Method	• Injection Molding

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.48		ASTM D792
Molding Shrinkage - Flow (0.125 in)	0.014	in/in	ASTM D955
Water Absorption (24 hr)	0.22	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break)	7900	psi	ASTM D638
Tensile Elongation (Break)	10	%	ASTM D638
Flexural Modulus	505000	psi	ASTM D790
Flexural Strength	10100	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (73°F, 0.125 in)	1.0	ft-lb/in	ASTM D256
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	82		ASTM D785
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	336	°F	ASTM D648
Deflection Temperature Under Load (264 psi, Unannealed)	297	°F	ASTM D648
Melting Temperature	351	°F	
CLTE - Flow	2.6E-5	in/in/°F	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+14	ohms·cm	ASTM D257
Dielectric Strength (Method A (Short-Time))	410	V/mil	ASTM D149
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.06 in)	HB		UL 94

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	200	°F
Drying Time	2.0 to 3.0	hr
Rear Temperature	380 to 425	°F
Middle Temperature	380 to 425	°F
Front Temperature	380 to 425	°F
Processing (Melt) Temp	380 to 440	°F
Mold Temperature	180 to 220	°F
Back Pressure	50.0 to 100	psi
Screw Speed	30 to 60	rpm

