

HiFill® POM HO GF15

Techmer Polymer Modifiers - Acetal (POM) Homopolymer

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"> Glass Fiber
Features	<ul style="list-style-type: none"> Homopolymer
Appearance	<ul style="list-style-type: none"> Colors Available
Processing Method	<ul style="list-style-type: none"> Injection Molding

Properties ¹

	Nominal Value	Unit	Test Method
Physical			
Density / Specific Gravity	1.53		ASTM D792
Molding Shrinkage - Flow (0.125 in)	6.0E-3	in/in	ASTM D955
Water Absorption (24 hr)	0.20	%	ASTM D570
Mechanical			
Nominal Value Unit Test Method			
Tensile Strength (Break)	12800	psi	ASTM D638
Tensile Elongation (Break)	4.0	%	ASTM D638
Flexural Modulus	770000	psi	ASTM D790
Flexural Strength	21000	psi	ASTM D790
Impact			
Nominal Value Unit Test Method			
Notched Izod Impact (73°F, 0.125 in)	1.3	ft·lb/in	ASTM D256
Hardness			
Nominal Value Unit Test Method			
Rockwell Hardness (R-Scale)	95		ASTM D785
Thermal			
Nominal Value Unit Test Method			
Deflection Temperature Under Load (66 psi, Unannealed)	310	°F	ASTM D648
Deflection Temperature Under Load (264 psi, Unannealed)	267	°F	ASTM D648
Melting Temperature	329	°F	
CLTE - Flow	4.4E-5	in/in/°F	ASTM D696
Flammability			
Nominal Value Unit Test Method			
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	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

