

HiFill® PP CO GF15 CC

 Techmer Polymer Modifiers - *Polypropylene Copolymer*
General Information
General

Material Status	• Commercial: Active
Availability	• North America
Filler / Reinforcement	• Glass Fiber, 15% Filler by Weight
Features	• Chemically Coupled • Copolymer
Appearance	• Colors Available • Colors Available
Forms	• Pellets
Processing Method	• Injection Molding

Properties ¹

	Nominal Value	Unit	Test Method
Physical			
Density / Specific Gravity	1.01		ASTM D792
Molding Shrinkage - Flow (0.125 in)	6.0E-3	in/in	ASTM D955
Water Absorption (24 hr)	0.050	%	ASTM D570
Mechanical			
Tensile Strength (Break)	6500	psi	ASTM D638
Tensile Elongation (Break)	4.0	%	ASTM D638
Flexural Modulus	430000	psi	ASTM D790
Flexural Strength	8000	psi	ASTM D790
Impact			
Notched Izod Impact			ASTM D256
-20°F, 0.125 in	1.0	ft·lb/in	
73°F, 0.125 in	2.3	ft·lb/in	
Hardness			
Rockwell Hardness (R-Scale)	100		ASTM D785
Thermal			
Deflection Temperature Under Load (66 psi, Unannealed)	305	°F	ASTM D648
Deflection Temperature Under Load (264 psi, Unannealed)	285	°F	ASTM D648
CLTE - Flow	2.1E-5	in/in/°F	ASTM D696
Flammability			
Flame Rating	HB		UL 94

Processing Information

	Nominal Value	Unit
Injection		
Drying Temperature	170	°F
Drying Time	2.0 to 3.0	hr
Rear Temperature	460 to 510	°F
Middle Temperature	460 to 510	°F
Front Temperature	460 to 510	°F
Processing (Melt) Temp	430	°F
Mold Temperature	80 to 120	°F
Back Pressure	50.0 to 100	psi
Screw Speed	30 to 60	rpm

