

**HiFill® PP GF30 CC**

 Techmer Polymer Modifiers - *Polypropylene Copolymer*
**General Information**
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Material Status	• Commercial: Active
Availability	• North America
Filler / Reinforcement	• Glass Fiber, 30% Filler by Weight
Features	• Chemically Coupled • Copolymer
Appearance	• Colors Available
Forms	• Pellets
Processing Method	• Injection Molding

**Properties <sup>1</sup>**

	Nominal Value	Unit	Test Method
<b>Physical</b>			
Density / Specific Gravity	1.12		ASTM D792
Molding Shrinkage - Flow (0.125 in)	4.0E-3	in/in	ASTM D955
Water Absorption (24 hr)	0.050	%	ASTM D570
<b>Mechanical</b>			
Tensile Strength (Break)	10400	psi	ASTM D638
Tensile Elongation (Break)	4.0	%	ASTM D638
Flexural Modulus	850000	psi	ASTM D790
Flexural Strength	15500	psi	ASTM D790
<b>Impact</b>			
Notched Izod Impact			ASTM D256
-20°F, 0.125 in	1.0	ft·lb/in	
73°F, 0.125 in	4.1	ft·lb/in	
<b>Hardness</b>			
Rockwell Hardness (R-Scale)	100		ASTM D785
<b>Thermal</b>			
Deflection Temperature Under Load (66 psi, Unannealed)	315	°F	ASTM D648
Deflection Temperature Under Load (264 psi, Unannealed)	270	°F	ASTM D648
CLTE - Flow	2.1E-5	in/in/°F	ASTM D696
<b>Flammability</b>			
Flame Rating	HB		UL 94

**Processing Information**

	Nominal Value	Unit
<b>Injection</b>		
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

