

HiFill® PP CO GF30 CC

 Techmer Polymer Modifiers - *Polypropylene*
General Information
Product Description

8143116

General

Material Status	• Commercial: Active
Availability	• North America
Filler / Reinforcement	• Glass Fiber, 30% Filler by Weight
Features	• Chemically Coupled
Appearance	• Colors Available
Forms	• Pellets
Processing Method	• Injection Molding

Properties ¹

Physical	Nominal Value	Unit	Test Method
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
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break)	12000	psi	ASTM D638
Tensile Elongation (Break)	3.0	%	ASTM D638
Flexural Modulus	740000	psi	ASTM D790
Flexural Strength	15500	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-20°F, 0.125 in	1.0	ft-lb/in	
73°F, 0.125 in	1.5	ft-lb/in	
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	100		ASTM D785
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	315	°F	ASTM D648
Deflection Temperature Under Load (264 psi, Unannealed)	300	°F	ASTM D648
CLTE - Flow	2.1E-5	in/in/°F	ASTM D696
Flammability	Nominal Value	Unit	Test Method
Flame Rating	HB		UL 94

Processing Information

Injection	Nominal Value	Unit
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

