

HiFill® PP CO GF20 CC

 Techmer Polymer Modifiers - *Polypropylene Copolymer*
General Information
General

Material Status	• Commercial: Active
Availability	• North America
Filler / Reinforcement	• Glass Fiber, 20% Filler by Weight
Features	• Chemically Coupled • Copolymer
Appearance	• Colors Available
Forms	• Pellets
Processing Method	• Injection Molding

Properties ¹

	Nominal Value	Unit	Test Method
Physical			
Density / Specific Gravity	1.04		ASTM D792
Molding Shrinkage - Flow (0.125 in)	5.0E-3	in/in	ASTM D955
Water Absorption (24 hr)	0.050	%	ASTM D570
Mechanical			
Nominal Value Unit Test Method			
Tensile Strength (Break)	9400	psi	ASTM D638
Tensile Elongation (Break)	4.0	%	ASTM D638
Flexural Modulus	650000	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	4.6	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)	300	°F	ASTM D648
Deflection Temperature Under Load (264 psi, Unannealed)	260	°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

	Nominal Value	Unit
Injection		
Drying Temperature	170	°F
Drying Time	2.0 to 3.0	hr
Rear Temperature	420 to 460	°F
Middle Temperature	430 to 470	°F
Front Temperature	410 to 450	°F
Processing (Melt) Temp	450 to 500	°F
Mold Temperature	80 to 160	°F
Back Pressure	0.00 to 100	psi
Screw Speed	30 to 60	rpm

