

HiFill® PP CO GF20 CC

Polypropylene Copolymer

Techmer Engineered Solutions

Message:

HiFill® PP CO GF20 CC is a Polypropylene Copolymer (PP Copolymer) product filled with 20% glass fiber. It can be processed by injection molding and is available in North America.

Characteristics include:

Flame Rated

Chemically Coupled

Copolymer

General Information			
Filler / Reinforcement	Glass Fiber,20% Filler by Weight		
Features	Chemically Coupled Copolymer		
Appearance	Colors Available		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.04	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	0.50	%	ASTM D955
Water Absorption (24 hr)	0.050	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	100		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break)	64.8	MPa	ASTM D638
Tensile Elongation (Break)	4.0	%	ASTM D638
Flexural Modulus	4480	MPa	ASTM D790
Flexural Strength	107	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-29°C, 3.18 mm	53	J/m	
23°C, 3.18 mm	250	J/m	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	149	°C	
1.8 MPa, Unannealed	127	°C	
CLTE - Flow	3.8E-5	cm/cm/°C	ASTM D696
Flammability	Nominal Value		Test Method
Flame Rating	HB		UL 94
Injection	Nominal Value	Unit	

Drying Temperature	76.7	°C
Drying Time	2.0 to 3.0	hr
Rear Temperature	238 to 266	°C
Middle Temperature	238 to 266	°C
Front Temperature	238 to 266	°C
Processing (Melt) Temp	221	°C
Mold Temperature	26.7 to 48.9	°C
Back Pressure	0.345 to 0.689	MPa
Screw Speed	30 to 60	rpm

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Recommended distributors for this material

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