

# HiFill® PP GF20 CC LE

Polypropylene

Techmer Engineered Solutions

## Message:

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

Typical application: Food Contact Applications.

Characteristics include:

Flame Rated

Chemically Coupled

General Information			
Filler / Reinforcement	Glass Fiber,20% Filler by Weight		
Features	Chemically Coupled		
	Low Extractables		
Agency Ratings	FDA Unspecified Rating		
Appearance	Colors Available		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.04	g/cm <sup>3</sup>	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	0.40	%	ASTM D955
Water Absorption (24 hr)	0.010	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	112		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break)	68.9	MPa	ASTM D638
Tensile Elongation (Break)	4.0	%	ASTM D638
Flexural Modulus	4310	MPa	ASTM D790
Flexural Strength	114	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.18 mm)	110	J/m	ASTM D256
Unnotched Izod Impact (3.18 mm)	590	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	163	°C	
1.8 MPa, Unannealed	154	°C	
Melting Temperature	163	°C	
CLTE - Flow	3.4E-5	cm/cm/°C	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	4.0E+16	ohms · cm	ASTM D257

Dielectric Strength <sup>1</sup>	21	kV/mm	ASTM D149
Flammability	Nominal Value	Unit	Test Method
Flame Rating	HB		UL 94
NOTE			
1.	Method A (Short-Time)		

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