

HiFill® PP GF/M40 CC NAT

Polypropylene
Techmer Engineered Solutions

Message:

HiFill® PP GF/M40 CC NAT is a Polypropylene product filled with 40% glass fiber and 40% mineral. It can be processed by injection molding and is available in North America.
Characteristics include:
Flame Rated
Chemically Coupled

General Information			
Filler / Reinforcement		Glass Fiber,40% Filler by Weight Mineral,40% Filler by Weight	
Features		Chemically Coupled	
Appearance		Colors Available	
Forms		Pellets	
Processing Method		Injection Molding	
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.23	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	0.45	%	ASTM D955
Water Absorption (24 hr)	0.040	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	110		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break)	48.3	MPa	ASTM D638
Tensile Elongation (Break)	5.0	%	ASTM D638
Flexural Modulus	5520	MPa	ASTM D790
Flexural Strength	79.3	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.18 mm)	59	J/m	ASTM D256
Unnotched Izod Impact (3.18 mm)	530	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	154	°C	
1.8 MPa, Unannealed	149	°C	
Melting Temperature	163	°C	
CLTE - Flow	4.0E-5	cm/cm/°C	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+17	ohms · cm	ASTM D257
Dielectric Strength ¹	20	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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Recommended distributors for this material


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