

HiFill® PP GB20

Polypropylene
Techmer Engineered Solutions

Message:
HiFill® PP GB20 is a Polypropylene product filled with 20% glass bead. It can be processed by injection molding and is available in North America.

General Information			
Filler / Reinforcement	Glass Bead,20% Filler by Weight		
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)	1.8	%	ASTM D955
Water Absorption (24 hr)	0.020	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	95		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break)	26.2	MPa	ASTM D638
Tensile Elongation (Break)	10	%	ASTM D638
Flexural Modulus	1590	MPa	ASTM D790
Flexural Strength	33.8	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.18 mm)	32	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	113	°C	
1.8 MPa, Unannealed	62.8	°C	
Melting Temperature	170	°C	
CLTE - Flow	6.7E-5	cm/cm/°C	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+16	ohms · cm	ASTM D257
Dielectric Strength ¹	20	kV/mm	ASTM D149
NOTE			
1.	Method A (Short-Time)		

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