

HiFill® PEI GF20

Polyether Imide

Techmer Engineered Solutions

Message:

HiFill® PEI GF20 is a Polyether Imide (PEI) product filled with 20% glass fiber. It can be processed by injection molding and is available in North America. Primary characteristic: flame rated.

General Information			
Filler / Reinforcement	Glass Fiber,20% Filler by Weight		
Appearance	Colors Available		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.41	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	0.40	%	ASTM D955
Water Absorption (24 hr)	0.22	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break)	148	MPa	ASTM D638
Flexural Modulus	6550	MPa	ASTM D790
Flexural Strength	217	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.18 mm)	80	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	213	°C	ASTM D648
Flammability	Nominal Value	Test Method	
Flame Rating	V-0	UL 94	
Injection	Nominal Value	Unit	
Drying Temperature	141	°C	
Drying Time	3.0	hr	
Rear Temperature	357 to 391	°C	
Middle Temperature	357 to 391	°C	
Front Temperature	357 to 391	°C	
Processing (Melt) Temp	354 to 388	°C	
Mold Temperature	135 to 163	°C	
Back Pressure	0.345 to 0.689	MPa	
Screw Speed	50 to 100	rpm	

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