

HiFill® PEI GF10

Polyether Imide

Techmer Engineered Solutions

Message:

HiFill® PEI GF10 is a Polyether Imide (PEI) product filled with 10% 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,10% Filler by Weight		
Appearance	Colors Available		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.34	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	0.50	%	ASTM D955
Water Absorption (24 hr)	0.22	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break)	121	MPa	ASTM D638
Flexural Modulus	5170	MPa	ASTM D790
Flexural Strength	203	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.18 mm)	53	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	210	°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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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

