

**InStruc® PEIGF20HF**

Americhem - Polyetherimide

## General Information

**Product Description**

20% GLASS FIBER REINFORCED, HIGH FLOW POLYETHERIMIDE

**General**

Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Filler / Reinforcement	• Glass Fiber, 20% Filler by Weight		
Features	• Filled • Good Dimensional Stability	• High Flow • High Stiffness	• High Strength
Uses	• Aerospace Applications • Connectors • Consumer Applications • Electrical/Electronic Applications • Engineering Parts	• Housings • Industrial Applications • Industrial Parts • Metal Replacement • Military/Defense Applications	• Oil/Gas Applications • Outdoor Applications • Semiconductor Applications
Forms	• Pellets		
Processing Method	• Injection Molding		

 Properties <sup>1</sup>

	Nominal Value	Unit	Test Method
<b>Physical</b>			
Density / Specific Gravity	1.43		ASTM D792
Molding Shrinkage - Flow	3.0E-3 to 5.0E-3	in/in	ASTM D955
Water Absorption (24 hr)	0.21	%	ASTM D570
<b>Mechanical</b>			
Tensile Modulus	1.15E+6	psi	ASTM D638
Tensile Strength	21000	psi	ASTM D638
Tensile Elongation (Yield)	2.0 to 4.0	%	ASTM D638
Flexural Modulus	1.15E+6	psi	ASTM D790
Flexural Strength	31000	psi	ASTM D790
<b>Impact</b>			
Notched Izod Impact (0.125 in)	1.3	ft-lb/in	ASTM D256
Unnotched Izod Impact (0.125 in)	11	ft-lb/in	ASTM D4812
<b>Thermal</b>			
Deflection Temperature Under Load (264 psi, Unannealed)	410	°F	ASTM D648
<b>Electrical</b>			
Surface Resistivity	1.0E+17	ohms	ASTM D257
<b>Flammability</b>			
Flame Rating			UL 94
0.030 in		V-0	
0.12 in		V-0	

## Processing Information

	Nominal Value	Unit
<b>Injection</b>		
Drying Temperature	300	°F
Drying Time	3.0 to 4.0	hr
Processing (Melt) Temp	680 to 710	°F
Mold Temperature	300 to 350	°F
Back Pressure	50.0 to 100	psi
Screw Speed	40 to 70	rpm

