

**InStruc® PEEKGF13HFMD**

Americhem - Polyetheretherketone

**General Information**
**Product Description**

13% GLASS FIBER REINFORCED HIGH FLOW POLYETHERETHERKETONE FOR HEALTHCARE APPLICATIONS

**General**

Material Status	• Commercial: Active
Availability	• Africa & Middle East • Asia Pacific • Europe • Latin America • North America
Filler / Reinforcement	• Glass Fiber, 13% Filler by Weight
Features	• Filled • Good Dimensional Stability • High Stiffness • High Strength
Uses	• Connectors • Electrical/Electronic Applications • Engineering Parts • Housings • Medical/Healthcare Applications • Metal Replacement • Surgical Instruments
Forms	• Pellets
Processing Method	• Injection Molding

**Properties <sup>1</sup>**

	Nominal Value	Unit	Test Method
<b>Physical</b>			
Density / Specific Gravity	1.38		ASTM D792
Molding Shrinkage - Flow	4.0E-3 to 5.0E-3	in/in	ASTM D955
<b>Mechanical</b>			
Tensile Modulus	1.04E+6	psi	ASTM D638
Tensile Strength	16000	psi	ASTM D638
Tensile Elongation (Yield)	2.0 to 3.0	%	ASTM D638
Flexural Modulus	972000	psi	ASTM D790
Flexural Strength	29000	psi	ASTM D790
<b>Impact</b>			
Notched Izod Impact (0.125 in)	1.1	ft·lb/in	ASTM D256
Unnotched Izod Impact (0.125 in)	10	ft·lb/in	ASTM D955
<b>Thermal</b>			
Deflection Temperature Under Load (264 psi, Unannealed)	480	°F	ASTM D648
<b>Electrical</b>			
Surface Resistivity	1.0E+17	ohms	ASTM D257
<b>Flammability</b>			
Flame Rating (0.06 in)	V-0		Internal Method

**Processing Information**

	Nominal Value	Unit
<b>Injection</b>		
Drying Temperature	300	°F
Drying Time	4.0	hr
Processing (Melt) Temp	660 to 740	°F
Mold Temperature	350 to 400	°F
Back Pressure	50.0 to 100	psi
Screw Speed	40 to 70	rpm

