

InStruc® PEEKGB20HF

Americhem - Polyetheretherketone

General Information

Product Description

20% GLASS BEAD FILLED, HIGH FLOW POLYETHERETHERKETONE

General

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

 Properties ¹

	Nominal Value	Unit	Test Method
Physical			
Density / Specific Gravity	1.44		ASTM D792
Molding Shrinkage - Flow	0.011 to 0.014	in/in	ASTM D955
Mechanical			
Tensile Modulus	700000	psi	ASTM D638
Tensile Strength	14000	psi	ASTM D638
Tensile Elongation (Yield)	2.0 to 4.0	%	ASTM D638
Flexural Modulus	650000	psi	ASTM D790
Flexural Strength	19000	psi	ASTM D790
Impact			
Notched Izod Impact (0.125 in)	0.80	ft·lb/in	ASTM D256
Thermal			
Deflection Temperature Under Load (264 psi, Unannealed)	340	°F	ASTM D648
Flammability			
Flame Rating (0.06 in)	V-0		Internal Method

Processing Information

	Nominal Value	Unit
Injection		
Drying Temperature	300	°F
Drying Time	4.0	hr
Processing (Melt) Temp	660 to 740	°F
Mold Temperature	350 to 450	°F
Back Pressure	50.0 to 100	psi
Screw Speed	40 to 70	rpm

