

InLube® PEEKGF30TF15HFMD

Americhem - Polyetheretherketone

General Information

Product Description

30% GLASS FIBER REINFORCED, 15% PTFE LUBRICATED HIGH FLOW PEEK LOCKED FORMULATION FOR MEDICAL USAGE

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Filler / Reinforcement	• Glass Fiber, 30% Filler by Weight		
Additive	• PTFE Lubricant: 15%		
Features	• Autoclave Sterilizable • Chemical Resistant • E-beam Sterilizable • Ethylene Oxide Sterilizable • Filled • Good Dimensional Stability	• Good Mold Release • Heat Sterilizable • High Flow • High Stiffness • High Strength • Low Friction	• Lubricated • Radiation Sterilizable • Steam Sterilizable • Wear Resistant
Uses	• Connectors • Electrical/Electronic Applications • Engineering Parts	• Industrial Parts • Medical/Healthcare Applications • Metal Replacement	• Semiconductor Applications • Surgical Instruments
Forms	• Pellets		
Processing Method	• Injection Molding		

 Properties ¹

	Nominal Value	Unit	Test Method
Physical			
Density / Specific Gravity	1.58		ASTM D792
Specific Volume	17.5	in ³ /lb	
Molding Shrinkage - Flow	2.0E-3 to 3.0E-3	in/in	ASTM D955
Water Absorption (24 hr)	0.10	%	ASTM D570
Mechanical			
Tensile Strength	22000	psi	ASTM D638
Tensile Elongation (Yield)	1.0 to 2.0	%	ASTM D638
Flexural Modulus	1.00E+6	psi	ASTM D790
Flexural Strength	21500	psi	ASTM D790
Impact			
Notched Izod Impact (0.125 in)	1.6	ft·lb/in	ASTM D256
Unnotched Izod Impact (0.125 in)	8.0	ft·lb/in	ASTM D4812
Hardness			
Rockwell Hardness (R-Scale)	124		
Thermal			
Deflection Temperature Under Load (264 psi, Unannealed)	600	°F	ASTM D648
CLTE - Flow	1.2E-5	in/in/°F	ASTM D696
Electrical			
Surface Resistivity	1.0E+17	ohms	
Flammability			
Flame Rating (0.06 in)	HB		UL 94

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 400 °F
Back Pressure	50.0 to 100 psi
Screw Speed	40 to 70 rpm
Vent Depth	1.5E-3 to 3.0E-3 in

Notes

¹ Typical properties: these are not to be construed as specifications.

