

InLube® PEIGF10TF15HFMD

Americhem - Polyetherimide

General Information

Product Description

10% GLASS FIBER REINFORCED, 15% PTFE LUBRICATED, HIGH FLOW POLYETHERIMIDE

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East	• Europe	• North America
	• Asia Pacific	• Latin America	
Filler / Reinforcement	• Glass Fiber, 10% Filler by Weight		
Additive	• PTFE Lubricant: 15%		
Features	• Autoclave Sterilizable	• Good Mold Release	• Lubricated
	• Chemical Resistant	• Heat Sterilizable	• Radiation Sterilizable
	• E-beam Sterilizable	• High Flow	• Steam Sterilizable
	• Ethylene Oxide Sterilizable	• High Stiffness	• Wear Resistant
	• Filled	• High Strength	
	• Good Dimensional Stability	• Low Friction	
Uses	• Connectors	• Industrial Parts	• Semiconductor Applications
	• Electrical/Electronic Applications	• Medical/Healthcare Applications	• Surgical Instruments
	• Engineering Parts	• Metal Replacement	
Forms	• Pellets		
Processing Method	• Injection Molding		

 Properties ¹

	Nominal Value	Unit	Test Method
Physical			
Density / Specific Gravity	1.43		ASTM D792
Molding Shrinkage - Flow	4.0E-3 to 6.0E-3	in/in	ASTM D955
Water Absorption (24 hr)	0.21	%	ASTM D570
Mechanical			
Tensile Strength	14200	psi	ASTM D638
Tensile Elongation (Yield)	3.0 to 5.0	%	ASTM D638
Flexural Modulus	750000	psi	ASTM D790
Flexural Strength	24000	psi	ASTM D790
Impact			
Notched Izod Impact (0.125 in)	0.90	ft-lb/in	ASTM D256
Unnotched Izod Impact (0.125 in)	6.0 to 8.0	ft-lb/in	ASTM D4812
Thermal			
Deflection Temperature Under Load (264 psi, Unannealed)	405	°F	ASTM D648
Flammability			
Flame Rating (0.06 in)	V-0		UL 94

Processing Information

	Nominal Value	Unit
Injection		
Drying Temperature	300	°F
Drying Time	3.0 to 4.0	hr
Processing (Melt) Temp	670 to 725	°F
Mold Temperature	300 to 350	°F
Back Pressure	50.0 to 100	psi
Screw Speed	40 to 70	rpm
Vent Depth	1.5E-3 to 3.0E-3	in

