

InLube® PEIGF30TF15HFMD

Americhem - Polyetherimide

General Information

Product Description

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

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East	• Europe	• North America
	• Asia Pacific	• Latin America	
Filler / Reinforcement	• Glass Fiber, 30% 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

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.61		ASTM D792
Specific Volume	17.2	in ³ /lb	
Molding Shrinkage - Flow	1.0E-3 to 3.0E-3	in/in	ASTM D955
Water Absorption (24 hr)	0.18	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	24000	psi	ASTM D638
Tensile Elongation (Yield)	1.0 to 3.0	%	ASTM D638
Flexural Modulus	1.30E+6	psi	ASTM D790
Flexural Strength	33000	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
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
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (264 psi, Unannealed)	410	°F	ASTM D648
CLTE - Flow	1.2E-5	in/in/°F	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+17	ohms	
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.06 in)	V-0		UL 94

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	300	°F
Drying Time	4.0	hr
Processing (Melt) Temp	680 to 715	°F
Mold Temperature	300	°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.

