

InLube® PEITF10HF

Americhem - Polyetherimide

General Information

Product Description

InLube PEITF10HF is a 10% PTFE lubricated, high flow Polyetherimide. This material offers stiffness, rigidity, high strength at elevated temperatures, dimensional stability, good electrical properties, and is inherently flame retardant.

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East	• Europe	• North America
	• Asia Pacific	• Latin America	
Additive	• PTFE Lubricant: 10%		
Features	• Chemical Resistant	• High Flow	• Lubricated
	• Good Mold Release	• Low Friction	• Wear Resistant
Uses	• Aerospace Applications	• Engineering Parts	• Military/Defense Applications
	• Connectors	• Industrial Applications	• Oil/Gas Applications
	• Consumer Applications	• Industrial Parts	• Outdoor Applications
	• Electrical/Electronic Applications	• Metal Replacement	• Semiconductor Applications
Forms	• Pellets		
Processing Method	• Injection Molding		

 Properties ¹

	Nominal Value	Unit	Test Method
Physical			
Density / Specific Gravity	1.33		ASTM D792
Molding Shrinkage - Flow	6.0E-3 to 0.010	in/in	ASTM D955
Water Absorption (24 hr)	0.25	%	ASTM D570
Mechanical			
Tensile Modulus	400000	psi	ASTM D638
Tensile Strength	13000	psi	ASTM D638
Tensile Elongation (Yield)	5.0 to 7.0	%	ASTM D638
Flexural Modulus	450000	psi	ASTM D790
Flexural Strength	18500	psi	ASTM D790
Impact			
Notched Izod Impact (0.125 in)	1.0	ft·lb/in	ASTM D256
Unnotched Izod Impact (0.125 in)	10	ft·lb/in	ASTM D4812
Thermal			
Deflection Temperature Under Load (264 psi, Unannealed)	390	°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	680 to 715	°F
Mold Temperature	300	°F
Back Pressure	50.0 to 100	psi
Screw Speed	40 to 70	rpm

