

InLube® PEICF30TF15HF

Americhem - Polyetherimide

General Information

Product Description

30% CARBON 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	• Carbon Fiber, 30% Filler by Weight		
Additive	• PTFE Lubricant: 15%		
Features	• Chemical Resistant	• High Flow	• Lubricated
	• Filled	• High Stiffness	• Wear Resistant
	• Good Dimensional Stability	• High Strength	
	• Good Mold Release	• Low Friction	
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

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.49		ASTM D792
Specific Volume	18.6	in ³ /lb	
Molding Shrinkage - Flow	5.0E-4 to 1.5E-3	in/in	ASTM D955
Water Absorption (24 hr)	0.14	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	3.50E+6	psi	ASTM D638
Tensile Strength	28000	psi	ASTM D638
Tensile Elongation (Yield)	1.0	%	ASTM D638
Flexural Modulus	2.90E+6	psi	ASTM D790
Flexural Strength	38500	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (0.125 in)	1.5	ft·lb/in	ASTM D256
Unnotched Izod Impact (0.125 in)	10	ft·lb/in	ASTM D4812
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (264 psi, Unannealed)	405	°F	ASTM D648
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+3 to 1.0E+7	ohms	ASTM D257
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.06 in)	V-0		Internal Method

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.

