

InLube® POKCF15TF10HF

Americhem - Polyketone

General Information

Product Description

15% CARBON FIBER REINFORCED, 10% PTFE LUBRICATED, HIGH FLOW POLYKETONE

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Filler / Reinforcement	• Carbon Fiber, 15% Filler by Weight		
Additive	• PTFE Lubricant: 10%		
Features	• Chemical Resistant • Filled • Good Dimensional Stability • Good Mold Release	• High Flow • High Stiffness • High Strength • Low Friction	• Lubricated • Wear Resistant
Uses	• Closures • Connectors • Consumer Applications	• Electrical/Electronic Applications • Household Goods • Industrial Applications	• Industrial Parts
Forms	• Pellets		
Processing Method	• Injection Molding		

 Properties ¹

	Nominal Value	Unit	Test Method
Physical			
Density / Specific Gravity	1.36		ASTM D792
Molding Shrinkage - Flow	2.0E-3 to 4.0E-3	in/in	ASTM D955
Mechanical			
Tensile Modulus	1.60E+6	psi	ASTM D638
Tensile Strength	20000	psi	ASTM D638
Tensile Elongation (Yield)	2.3	%	ASTM D638
Flexural Modulus	1.50E+6	psi	ASTM D790
Flexural Strength	28500	psi	ASTM D790
Impact			
Notched Izod Impact	1.7	ft·lb/in	ASTM D256
Thermal			
Deflection Temperature Under Load (264 psi, Unannealed)	410	°F	ASTM D648
Electrical			
Surface Resistivity	1.0E+3 to 1.0E+7	ohms	ASTM D257

Processing Information

	Nominal Value	Unit
Injection		
Drying Temperature	170	°F
Drying Time	3.0 to 4.0	hr
Processing (Melt) Temp	450 to 480	°F
Mold Temperature	140 to 180	°F
Back Pressure	50.0 to 100	psi
Screw Speed	40 to 70	rpm

