

InLube® PCGF20TF15HFMD

Americhem - Polycarbonate

General Information

Product Description

20% GLASS FIBER REINFORCED, 15% PTFE LUBRICATED, HIGH FLOW POLYCARBONATE (LOCKED MEDICAL FORMULATION)

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East	• Europe	• North America
	• Asia Pacific	• Latin America	
Filler / Reinforcement	• Glass Fiber, 20% 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	• Closures	• Engineering Parts	• Medical/Healthcare Applications
	• Connectors	• Housings	• Surgical Instruments
	• Electrical/Electronic Applications	• Industrial Parts	
Forms	• Pellets		
Processing Method	• Injection Molding		

 Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.46		ASTM D792
Molding Shrinkage - Flow	1.0E-3 to 3.0E-3	in/in	ASTM D955
Water Absorption (24 hr)	0.060	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1.05E+6	psi	ASTM D638
Tensile Strength	14500	psi	ASTM D638
Tensile Elongation (Yield)	3.0 to 5.0	%	ASTM D638
Flexural Modulus	850000	psi	ASTM D790
Flexural Strength	22000	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (0.125 in)	2.8	ft·lb/in	ASTM D256
Unnotched Izod Impact (0.125 in)	16	ft·lb/in	ASTM D4812
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (264 psi, Unannealed)	200	°F	ASTM D648
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	> 1.0E+17	ohms	ASTM D257
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.12 in)	HB		UL 94

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	250	°F
Drying Time	3.0 to 4.0	hr
Processing (Melt) Temp	560 to 600	°F
Mold Temperature	180 to 225	°F
Back Pressure	50.0 to 100	psi
Screw Speed	40 to 70	rpm

