

InLube® PCTF5HFMRMD

Americhem - Polycarbonate

General Information
Product Description

5% PTFE LUBRICATED, HIGH FLOW, MOLD RELEASE POLYCARBONATE, LOCKED MEDICAL FORMULA

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East	• Europe	• North America
	• Asia Pacific	• Latin America	
Additive	• Mold Release	• PTFE Lubricant: 5%	
Features	• Autoclave Sterilizable	• Good Mold Release	• Lubricated
	• Chemical Resistant	• Heat Sterilizable	• Radiation Sterilizable
	• E-beam Sterilizable	• High Flow	• Steam Sterilizable
	• Ethylene Oxide Sterilizable	• Low Friction	• Wear Resistant
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	1.23		ASTM D792
Molding Shrinkage - Flow	5.0E-3 to 7.0E-3	in/in	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	300000	psi	ASTM D638
Tensile Strength	8500	psi	ASTM D638
Tensile Elongation (Yield)	> 10	%	ASTM D638
Flexural Modulus	320000	psi	ASTM D790
Flexural Strength	12000	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (0.125 in)	5.0	ft·lb/in	ASTM D256
Unnotched Izod Impact (0.125 in)	No Break		ASTM D4812
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (264 psi, Unannealed)	275	°F	ASTM D648
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	> 1.0E+17	ohms·cm	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
Suggested Max Moisture	0.020	%
Processing (Melt) Temp	580 to 620	°F
Mold Temperature	180 to 240	°F
Back Pressure	50.0 to 100	psi
Screw Speed	40 to 70	rpm

