

InLube® POMCGF10TF15MD

Americhem - Acetal (POM) Copolymer

General Information

Product Description	
10% GLASS FIBER REINFORCED 15% PTFE LUBRICATED COPOLYMER ACETAL LOCKED FORMULATION FOR MEDICAL USAGE	
General	
Material Status	<ul style="list-style-type: none"> Commercial: Active
Availability	<ul style="list-style-type: none"> Africa & Middle East Asia Pacific Europe Latin America North America
Filler / Reinforcement	<ul style="list-style-type: none"> Glass Fiber, 10% Filler by Weight
Additive	<ul style="list-style-type: none"> PTFE Lubricant: 15%
Features	<ul style="list-style-type: none"> Autoclave Sterilizable Chemical Resistant Ethylene Oxide Sterilizable Filled Good Dimensional Stability Good Mold Release Heat Sterilizable High Stiffness High Strength Low Friction Lubricated Steam Sterilizable Wear Resistant
Uses	<ul style="list-style-type: none"> Electrical/Electronic Applications Engineering Parts Medical/Healthcare Applications Surgical Instruments
Forms	<ul style="list-style-type: none"> Pellets
Processing Method	<ul style="list-style-type: none"> Injection Molding

 Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.55		ASTM D792
Specific Volume	17.9	in ³ /lb	
Molding Shrinkage - Flow	9.0E-3 to 0.011	in/in	ASTM D955
Water Absorption (24 hr)	0.30	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	11000	psi	ASTM D638
Tensile Elongation (Yield)	4.0 to 7.0	%	ASTM D638
Flexural Modulus	600000	psi	ASTM D790
Flexural Strength	16000	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (0.125 in)	1.4	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)	290	°F	ASTM D648
CLTE - Flow	4.0E-5	in/in/°F	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+17	ohms	
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.06 in)	HB		UL 94

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	180	°F
Drying Time	4.0	hr
Processing (Melt) Temp	375 to 410	°F
Mold Temperature	200	°F
Back Pressure	50.0 to 100	psi
Screw Speed	30 to 60	rpm
Vent Depth	5.0E-4 to 1.0E-3	in

