

InLube® PBTTTF3SI2MD
Americhem - Polybutylene Terephthalate
General Information
Product Description

3% PTFE/2% SILICONE LUBRICATED FLAME RETARDANT PBT. LOCKED FORMULATION FOR MEDICAL USAGE

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Additive	• PTFE Lubricant: 3% • Silicone Lubricant: 2%		
Features	• Chemical Resistant • E-beam Sterilizable • Ethylene Oxide Sterilizable	• Good Mold Release • Low Friction • Lubricated	• Radiation Sterilizable • Steam Sterilizable • Wear Resistant
Uses	• Battery Cases • Connectors • Electrical/Electronic Applications	• Engineering Parts • Housings • Industrial Parts	• Medical/Healthcare Applications • Semiconductor Applications • Surgical Instruments
Forms	• Pellets		
Processing Method	• Injection Molding		

Properties ¹

	Nominal Value	Unit	Test Method
Physical			
Density / Specific Gravity	1.33		ASTM D792
Molding Shrinkage - Flow	0.018 to 0.023	in/in	ASTM D955
Water Absorption (24 hr)	0.050	%	ASTM D570
Mechanical			
Tensile Strength	8100	psi	ASTM D638
Tensile Elongation (Yield)	> 20	%	ASTM D638
Flexural Modulus	360000	psi	ASTM D790
Impact			
Notched Izod Impact (0.125 in)	1.5	ft·lb/in	ASTM D256
Thermal			
Deflection Temperature Under Load (264 psi, Unannealed)	180	°F	ASTM D648
Electrical			
Surface Resistivity	1.0E+17	ohms	

Processing Information

	Nominal Value	Unit
Injection		
Drying Temperature	230	°F
Drying Time	4.0	hr
Processing (Melt) Temp	430 to 500	°F
Mold Temperature	225	°F
Back Pressure	50.0 to 100	psi
Screw Speed	40 to 70	rpm
Vent Depth	5.0E-4 to 1.0E-3	in

