

InLube® PCECOVHFMD WT048

Americhem - Polycarbonate

General Information
Product Description

InLube PCECOVHFMD WT048 is a halogen free, lubricated, very high flow polycarbonate. This material can be used in various applications that requires an internally lubricated product. This is a locked medical formulation.

General

Material Status	<ul style="list-style-type: none"> Commercial: Active 		
Availability	<ul style="list-style-type: none"> Africa & Middle East Asia Pacific 	<ul style="list-style-type: none"> Europe Latin America 	<ul style="list-style-type: none"> North America
Additive	<ul style="list-style-type: none"> Proprietary 		
Features	<ul style="list-style-type: none"> Autoclave Sterilizable E-beam Sterilizable Ethylene Oxide Sterilizable 	<ul style="list-style-type: none"> Heat Sterilizable High Flow Low Friction 	<ul style="list-style-type: none"> Lubricated Radiation Sterilizable Steam Sterilizable
Uses	<ul style="list-style-type: none"> Closures Connectors Electrical/Electronic Applications 	<ul style="list-style-type: none"> Engineering Parts Housings Industrial Parts 	<ul style="list-style-type: none"> 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	1.18		ASTM D792
Molding Shrinkage - Flow	6.0E-3 to 8.0E-3	in/in	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	325000	psi	ASTM D638
Tensile Strength	8700	psi	ASTM D638
Tensile Elongation (Yield)	5.0 to 6.0	%	ASTM D638
Flexural Modulus	340000	psi	ASTM D790
Flexural Strength	11000	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (0.125 in)	12	ft-lb/in	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (264 psi, Unannealed)	270	°F	ASTM D648
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	> 1.0E+18	ohms·cm	ASTM D257
Additional Information	Locked Medical Formulation		

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	250	°F
Drying Time	4.0	hr
Suggested Max Moisture	0.020	%
Processing (Melt) Temp	580 to 600	°F
Mold Temperature	150 to 200	°F
Back Pressure	50.0 to 100	psi
Screw Speed	40 to 70	rpm
Vent Depth	1.0E-3 to 2.0E-3	in

