

**InLube® PCGF30HFSI2MD**

Americhem - Polycarbonate

**General Information**
**Product Description**

30% GLASS FIBER REINFORCED, 2% SILICONE LUBRICATED, HIGH FLOW, POLYCARBONATE, LOCKED FORMULATION FOR MEDICAL USE

**General**

Material Status	<ul style="list-style-type: none"> <li>Commercial: Active</li> </ul>		
Availability	<ul style="list-style-type: none"> <li>Africa &amp; Middle East</li> <li>Asia Pacific</li> </ul>	<ul style="list-style-type: none"> <li>Europe</li> <li>Latin America</li> </ul>	<ul style="list-style-type: none"> <li>North America</li> </ul>
Filler / Reinforcement	<ul style="list-style-type: none"> <li>Glass Fiber, 30% Filler by Weight</li> </ul>		
Additive	<ul style="list-style-type: none"> <li>Silicone Lubricant: 2%</li> </ul>		
Features	<ul style="list-style-type: none"> <li>Autoclave Sterilizable</li> <li>E-beam Sterilizable</li> <li>Ethylene Oxide Sterilizable</li> <li>Filled</li> <li>Good Dimensional Stability</li> </ul>	<ul style="list-style-type: none"> <li>Heat Sterilizable</li> <li>High Flow</li> <li>High Stiffness</li> <li>High Strength</li> <li>Low Friction</li> </ul>	<ul style="list-style-type: none"> <li>Lubricated</li> <li>Radiation Sterilizable</li> <li>Steam Sterilizable</li> </ul>
Uses	<ul style="list-style-type: none"> <li>Closures</li> <li>Connectors</li> <li>Electrical/Electronic Applications</li> </ul>	<ul style="list-style-type: none"> <li>Engineering Parts</li> <li>Housings</li> <li>Industrial Parts</li> </ul>	<ul style="list-style-type: none"> <li>Medical/Healthcare Applications</li> <li>Surgical Instruments</li> </ul>
Forms	<ul style="list-style-type: none"> <li>Pellets</li> </ul>		
Processing Method	<ul style="list-style-type: none"> <li>Injection Molding</li> </ul>		

**Properties <sup>1</sup>**

	Nominal Value	Unit	Test Method
<b>Physical</b>			
Density / Specific Gravity	1.44		ASTM D792
Molding Shrinkage - Flow	1.0E-3 to 3.0E-3	in/in	ASTM D955
Water Absorption (24 hr)	0.10	%	ASTM D570
<b>Mechanical</b>			
Tensile Modulus	1.24E+6	psi	ASTM D638
Tensile Strength	15000	psi	ASTM D638
Tensile Elongation (Yield)	2.0 to 3.0	%	ASTM D638
Flexural Modulus	1.15E+6	psi	ASTM D790
Flexural Strength	24000	psi	ASTM D790
<b>Impact</b>			
Notched Izod Impact (0.125 in)	2.9	ft·lb/in	ASTM D256
<b>Thermal</b>			
Deflection Temperature Under Load (264 psi, Unannealed)	295	°F	ASTM D648

**Processing Information**

	Nominal Value	Unit
<b>Injection</b>		
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

