

**InLube® PCGF30TF10SI2**

Americhem - Polycarbonate

## General Information

**Product Description**

30% GLASS FIBER REINFORCED, 15% PTFE LUBRICATED POLYCARBONATE

**General**

Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Filler / Reinforcement	• Glass Fiber, 30% Filler by Weight		
Additive	• PTFE Lubricant: 10%	• Silicone Lubricant: 2%	
Features	• Chemical Resistant • Filled • Good Dimensional Stability	• Good Mold Release • High Stiffness • High Strength	• Low Friction • Lubricated • Wear Resistant
Uses	• Automotive Applications • Closures • Connectors • Consumer Applications	• Electrical/Electronic Applications • Engineering Parts • Household Goods • Housings	• Industrial Applications • Industrial Parts • Office Automation Equipment
Forms	• Pellets		
Processing Method	• Injection Molding		

 Properties <sup>1</sup>

	Nominal Value	Unit	Test Method
<b>Physical</b>			
Density / Specific Gravity	1.55		ASTM D792
Specific Volume	17.9	in <sup>3</sup> /lb	
Molding Shrinkage - Flow	1.0E-3 to 2.0E-3	in/in	ASTM D955
Water Absorption (24 hr)	0.060	%	ASTM D570
<b>Mechanical</b>			
Tensile Strength	17500	psi	ASTM D638
Tensile Elongation (Yield)	2.0 to 4.0	%	ASTM D638
Flexural Modulus	1.20E+6	psi	ASTM D790
Flexural Strength	26000	psi	ASTM D790
<b>Impact</b>			
Notched Izod Impact (0.125 in)	3.1	ft·lb/in	ASTM D256
Unnotched Izod Impact (0.125 in)	12	ft·lb/in	ASTM D4812
<b>Hardness</b>			
Rockwell Hardness (R-Scale)	121		
<b>Thermal</b>			
Deflection Temperature Under Load (264 psi, Unannealed)	300	°F	ASTM D648
CLTE - Flow	1.5E-5	in/in/°F	ASTM D696
<b>Electrical</b>			
Surface Resistivity	1.0E+17	ohms	
<b>Flammability</b>			
Flame Rating (0.06 in)	HB		UL 94

## Processing Information

	Nominal Value	Unit
<b>Injection</b>		
Drying Temperature	250	°F
Drying Time	4.0	hr
Processing (Melt) Temp	540 to 630	°F
Mold Temperature	200	°F



Back Pressure	50.0 to 100 psi
Screw Speed	40 to 70 rpm
Vent Depth	1.5E-3 to 3.0E-3 in

#### Notes

<sup>1</sup> Typical properties: these are not to be construed as specifications.

