

InLube® PCGF30TF15HF

Americhem - Polycarbonate

General Information

Product Description

30% GLASS FIBER REINFORCED, 15% PTFE LUBRICATED HIGH FLOW POLYCARBONATE

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
Filler / Reinforcement	<ul style="list-style-type: none"> Glass Fiber, 30% Filler by Weight 		
Additive	<ul style="list-style-type: none"> PTFE Lubricant: 15% 		
Features	<ul style="list-style-type: none"> Chemical Resistant Filled Good Dimensional Stability Good Mold Release 	<ul style="list-style-type: none"> High Flow High Stiffness High Strength Low Friction 	<ul style="list-style-type: none"> Lubricated Wear Resistant
Uses	<ul style="list-style-type: none"> Automotive Applications Closures Connectors Consumer Applications 	<ul style="list-style-type: none"> Electrical/Electronic Applications Engineering Parts Household Goods Housings 	<ul style="list-style-type: none"> Industrial Applications Industrial Parts Office Automation Equipment
Forms	<ul style="list-style-type: none"> Pellets 		
Processing Method	<ul style="list-style-type: none"> Injection Molding 		

 Properties ¹

	Nominal Value	Unit	Test Method
Physical			
Density / Specific Gravity	1.55		ASTM D792
Specific Volume	17.9	in ³ /lb	
Molding Shrinkage - Flow	1.0E-3 to 2.0E-3	in/in	ASTM D955
Water Absorption (24 hr)	0.060	%	ASTM D570
Mechanical			
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
Impact			
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
Hardness			
Rockwell Hardness (R-Scale)	121		
Thermal			
Deflection Temperature Under Load (264 psi, Unannealed)	300	°F	ASTM D648
CLTE - Flow	1.5E-5	in/in/°F	ASTM D696
Electrical			
Surface Resistivity	1.0E+17	ohms	
Flammability			
Flame Rating (0.06 in)	HB		UL 94

Processing Information

	Nominal Value	Unit
Injection		
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

¹ Typical properties: these are not to be construed as specifications.

