

**InLube® PPGF20TF15HSFC**

Americhem - Polypropylene

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

20% GLASS FIBER REINFORCED, 15% PTFE LUBRICATED HEAT STABILIZED POLYPROPYLENE BASED ON FDA COMPLIANT RAW MATERIALS.

**General**

Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Filler / Reinforcement	• Glass Fiber, 20% Filler by Weight		
Additive	• Heat Stabilizer	• PTFE Lubricant: 15%	
Features	• Chemical Resistant • Filled • Food Contact Acceptable • Good Dimensional Stability	• Good Mold Release • Heat Stabilized • High Stiffness • High Strength	• Low Friction • Lubricated • Wear Resistant
Uses	• Battery Cases • Closures • Connectors	• Consumer Applications • Electrical/Electronic Applications • Housings	• HVAC Applications • Industrial Applications • Industrial Parts
Agency Ratings	• FDA		
Forms	• Pellets		
Processing Method	• Injection Molding		

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

	Nominal Value	Unit	Test Method
<b>Physical</b>			
Density / Specific Gravity	1.15		ASTM D792
Molding Shrinkage - Flow (0.125 in)	2.0E-3 to 5.0E-3	in/in	
Water Absorption (Equilibrium)	0.030	%	ASTM D570
<b>Mechanical</b>			
Tensile Strength (Break)	5800	psi	ASTM D638
Flexural Modulus	675000	psi	ASTM D790
Flexural Strength	8200	psi	ASTM D790
<b>Impact</b>			
Notched Izod Impact	0.80	ft·lb/in	ASTM D256
Unnotched Izod Impact	3.0	ft·lb/in	ASTM D4812
<b>Thermal</b>			
Deflection Temperature Under Load (264 psi, Unannealed)	220	°F	ASTM D648
<b>Electrical</b>			
Surface Resistivity	1.0E+18	ohms	ASTM D257

**Processing Information**

	Nominal Value	Unit
<b>Injection</b>		
Drying Temperature	170	°F
Drying Time	2.0 to 4.0	hr
Processing (Melt) Temp	380 to 440	°F
Mold Temperature	100 to 150	°F
Back Pressure	50.0 to 100	psi
Screw Speed	40 to 70	rpm

