

**InLube® PPATF20**

Americhem - Polyphthalamide

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

20% PTFE LUBRICATED POLYPHTHALAMIDE

**General**

Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Additive	• PTFE Lubricant: 20%		
Features	• Chemical Resistant • Good Mold Release	• Low Friction • Lubricated	• Wear Resistant
Uses	• Aerospace Applications • Connectors • Consumer Applications • Electrical/Electronic Applications	• Engineering Parts • Industrial Applications • Industrial Parts • Metal Replacement	• Military/Defense Applications • Oil/Gas Applications • Outdoor Applications • Semiconductor Applications
Forms	• Pellets		
Processing Method	• Injection Molding		

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

	Nominal Value	Unit	Test Method
<b>Physical</b>			
Density / Specific Gravity	1.36		ASTM D792
Molding Shrinkage - Flow	0.015 to 0.025	in/in	ASTM D955
Water Absorption (24 hr)	0.40	%	ASTM D570
<b>Mechanical</b>			
Tensile Modulus	550000	psi	ASTM D638
Tensile Strength	11100	psi	ASTM D638
Tensile Elongation (Yield)	2.0 to 4.0	%	ASTM D638
Flexural Modulus	500000	psi	ASTM D790
Flexural Strength	17800	psi	ASTM D790
<b>Impact</b>			
Notched Izod Impact (0.125 in)	0.80	ft·lb/in	ASTM D256
Unnotched Izod Impact (0.125 in)	7.0	ft·lb/in	ASTM D4812
<b>Thermal</b>			
Deflection Temperature Under Load (264 psi, Unannealed)	245	°F	ASTM D648
<b>Electrical</b>			
Surface Resistivity	1.0E+14 to 1.0E+16	ohms	ASTM D257

**Processing Information**

	Nominal Value	Unit
<b>Injection</b>		
Drying Temperature	275	°F
Drying Time	4.0	hr
Suggested Max Moisture	0.050	%
Processing (Melt) Temp	575 to 625	°F
Mold Temperature	275 to 325	°F
Back Pressure	50.0 to 100	psi
Screw Speed	40 to 70	rpm

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