

InLube® PPATF10

Americhem - Polyphthalamide

General Information

Product Description

10% PTFE LUBRICATED POLYPHTHALAMIDE

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Additive	• PTFE Lubricant: 10%		
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 ¹

	Nominal Value	Unit	Test Method
Physical			
Density / Specific Gravity	1.24		ASTM D792
Molding Shrinkage - Flow	0.010 to 0.020	in/in	ASTM D955
Water Absorption (24 hr)	0.40	%	ASTM D570
Mechanical			
Tensile Modulus	550000	psi	ASTM D638
Tensile Strength	11500	psi	ASTM D638
Tensile Elongation (Yield)	2.0 to 4.0	%	ASTM D638
Flexural Modulus	500000	psi	ASTM D790
Flexural Strength	21000	psi	ASTM D790
Impact			
Notched Izod Impact (0.125 in)	1.0	ft-lb/in	ASTM D256
Unnotched Izod Impact (0.125 in)	7.0	ft-lb/in	ASTM D4812
Thermal			
Deflection Temperature Under Load (264 psi, Unannealed)	280	°F	ASTM D648
Electrical			
Surface Resistivity	1.0E+14 to 1.0E+16	ohms	ASTM D257

Processing Information

	Nominal Value	Unit
Injection		
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

