

InLube® PPSI4

Americhem - Polypropylene

General Information
Product Description

PPSI4 is an injection molding grade polypropylene with 4% silicone lubricant.

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Additive	• Silicone Lubricant: 4%		
Features	• Low Friction	• Lubricated	
Uses	• Battery Cases • Closures • Connectors	• Consumer Applications • Electrical/Electronic Applications • Housings	• HVAC Applications • Industrial Applications • Industrial Parts
Forms	• Pellets		
Processing Method	• Injection Molding		

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	0.900		ASTM D792
Molding Shrinkage - Flow	0.010 to 0.020	in/in	ASTM D955
Water Absorption (24 hr)	0.010	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	240000	psi	ASTM D638
Tensile Strength	4250	psi	ASTM D638
Tensile Elongation (Break)	> 10	%	ASTM D638
Flexural Modulus	250000	psi	ASTM D790
Flexural Strength	6500	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	1.1	ft·lb/in	ASTM D256
Unnotched Izod Impact	28	ft·lb/in	ASTM D4812

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	170	°F
Drying Time	2.0 to 4.0	hr
Processing (Melt) Temp	380 to 440	°F
Mold Temperature	100	°F
Back Pressure	50.0 to 100	psi
Screw Speed	40 to 70	rpm
Vent Depth	5.0E-4 to 1.0E-3	in

