

InLube® PA6SI2

Americhem - Polyamide 6

General Information

Product Description

2% SILICONE LUBRICATED NYLON 6

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East	• Europe	• North America
	• Asia Pacific	• Latin America	
Additive	• Silicone Lubricant: 2%		
Features	• Low Friction	• Lubricated	
Uses	• Closures	• Household Goods	• Outdoor Applications
	• Consumer Applications	• Industrial Applications	• Window & Door Components
	• Electrical/Electronic Applications	• Industrial Parts	
	• Engineering Parts	• Office Automation Equipment	
Forms	• Pellets		
Processing Method	• Injection Molding		

 Properties ¹

	Nominal Value	Unit	Test Method
Physical			
Density / Specific Gravity	1.12		ASTM D792
Specific Volume	24.7	in ³ /lb	
Molding Shrinkage - Flow	0.013 to 0.016	in/in	ASTM D955
Water Absorption (24 hr)	1.5	%	ASTM D570
Mechanical			
Tensile Strength	10500	psi	ASTM D638
Tensile Elongation (Yield)	> 50	%	ASTM D638
Flexural Modulus	400000	psi	ASTM D790
Shear Strength	9500	psi	ASTM D732
Impact			
Notched Izod Impact (0.125 in)	1.1	ft·lb/in	ASTM D256
Unnotched Izod Impact (0.125 in)	30	ft·lb/in	ASTM D4812
Thermal			
Deflection Temperature Under Load (264 psi, Unannealed)	160	°F	ASTM D648
CLTE - Flow	4.6E-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	175	°F
Drying Time	4.0	hr
Processing (Melt) Temp	480 to 550	°F
Mold Temperature	200	°F
Back Pressure	50.0 to 100	psi
Screw Speed	40 to 70	rpm
Vent Depth	5.0E-4 to 1.0E-3	in

