

**InLube® PA66GF30SI2HS**

Americhem - Polyamide 66

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

30% GLASS FIBER REINFORCED, 2% SILICONE LUBRICATED HEAT STABILIZED NYLON 6/6

**General**

Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Filler / Reinforcement	• Glass Fiber, 30% Filler by Weight		
Additive	• Heat Stabilizer	• Silicone Lubricant: 2%	
Features	• Filled • Good Dimensional Stability • Heat Stabilized	• High Stiffness • High Strength • Low Friction	• Lubricated
Uses	• Closures • Consumer Applications • Electrical/Electronic Applications • Engineering Parts	• Household Goods • Industrial Applications • Industrial Parts • Office Automation Equipment	• Outdoor Applications • Window & Door Components
Forms	• Pellets		
Processing Method	• Injection Molding		

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

<b>Physical</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Density / Specific Gravity	1.36		ASTM D792
Molding Shrinkage - Flow	2.0E-3 to 4.0E-3	in/in	ASTM D955
Water Absorption (24 hr)	0.90	%	ASTM D570
<b>Mechanical</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Tensile Strength	23000	psi	ASTM D638
Tensile Elongation (Yield)	3.0 to 5.0	%	ASTM D638
Flexural Modulus	1.25E+6	psi	ASTM D790
Flexural Strength	31500	psi	ASTM D790
<b>Impact</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Notched Izod Impact (0.125 in)	1.6	ft·lb/in	ASTM D256
Unnotched Izod Impact (0.125 in)	18 to 20	ft·lb/in	ASTM D4812
<b>Thermal</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Deflection Temperature Under Load (264 psi, Unannealed)	490	°F	ASTM D648

**Processing Information**

<b>Injection</b>	<b>Nominal Value</b>	<b>Unit</b>
Drying Temperature	175	°F
Drying Time	4.0	hr
Suggested Max Moisture	0.15 to 0.20	%
Processing (Melt) Temp	500 to 575	°F
Mold Temperature	200	°F
Back Pressure	50.0 to 100	psi
Screw Speed	40 to 70	rpm

