

**InLube® PA66GF30TF15IM**

Americhem - Polyamide 66

## General Information

**Product Description**

30% GLASS FIBER REINFORCED 15% PTFE LUBRICATED IMPACT MODIFIED 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	• Impact Modifier	• PTFE Lubricant: 15%	• Silicone Lubricant: 2%
Features	• Chemical Resistant • Filled • Good Dimensional Stability • Good Mold Release	• High Impact Resistance • High Stiffness • High Strength • Impact Modified	• Low Friction • Low Temperature Toughness • Lubricated • Wear Resistant
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>

	Nominal Value	Unit	Test Method
<b>Physical</b>			
Density / Specific Gravity	1.42		ASTM D792
Specific Volume	19.5	in <sup>3</sup> /lb	
Molding Shrinkage - Flow	4.0E-3 to 6.0E-3	in/in	ASTM D955
Water Absorption (24 hr)	0.80	%	ASTM D570
<b>Mechanical</b>			
Tensile Strength	12500	psi	ASTM D638
Tensile Elongation (Yield)	1.0 to 3.0	%	ASTM D638
Flexural Modulus	750000	psi	ASTM D790
Flexural Strength	22000	psi	ASTM D790
<b>Impact</b>			
Notched Izod Impact (0.125 in)	3.8	ft·lb/in	ASTM D256
Unnotched Izod Impact (0.125 in)	16	ft·lb/in	ASTM D4812
<b>Thermal</b>			
Deflection Temperature Under Load (264 psi, Unannealed)	470	°F	ASTM D648
CLTE - Flow	2.2E-5	in/in/°F	ASTM D696
<b>Electrical</b>			
Surface Resistivity	1.0E+17	ohms	
<b>Flammability</b>			
Flame Rating (0.06 in)	HB		UL 94

## Processing Information

	Nominal Value	Unit
<b>Injection</b>		
Drying Temperature	175	°F
Drying Time	4.0	hr
Processing (Melt) Temp	500 to 575	°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

