

InLube® PA6GF30SI2

Americhem - Polyamide 6

General Information
Product Description

InLube PA6GF30SI2 is a 30% glass reinforced PA6 with silicone. This product offers great stiffness, strength, chemical resistance, and lubrication. This datasheet covers all colors of InLube PA6GF30SI2.

General

Material Status	• Commercial: Active
Availability	• Africa & Middle East • Europe • North America • Asia Pacific • Latin America
Filler / Reinforcement	• Glass Fiber, 30% Filler by Weight
Additive	• Silicone Lubricant: 2%
Features	• Filled • High Stiffness • Low Friction • Good Dimensional Stability • High Strength • 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

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.36		ASTM D792
Molding Shrinkage - Flow	1.0E-3 to 4.0E-3	in/in	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1.40E+6	psi	ASTM D638
Tensile Strength	23000	psi	ASTM D638
Tensile Elongation (Yield)	2.0 to 4.0	%	ASTM D638
Flexural Modulus	1.20E+6	psi	ASTM D790
Flexural Strength	36000	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (0.125 in)	2.3	ft·lb/in	ASTM D256
Unnotched Izod Impact (0.125 in)	20	ft·lb/in	ASTM D4812
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (264 psi, Unannealed)	410	°F	ASTM D648

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	180	°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

