

InLube® PA612GF30TF13SI2

Americhem - Polyamide 6/12 Copolymer

General Information

Product Description

30% GLASS FIBER REINFORCED, 13% PTFE/2% SILICONE LUBRICATED NYLON 6/12

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	• PTFE Lubricant: 13%	• Silicone Lubricant: 2%	
Features	• Chemical Resistant • Filled • Good Dimensional Stability	• Good Mold Release • High Stiffness • High Strength	• Low Friction • Lubricated • Wear Resistant
Uses	• Closures • Consumer Applications • Electrical/Electronic Applications	• Engineering Parts • Household Goods • Industrial Applications	• Industrial Parts • Office Automation Equipment • Outdoor Applications
Forms	• Pellets		
Processing Method	• Injection Molding		

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.42		ASTM D792
Molding Shrinkage - Flow (0.125 in)	2.0E-3 to 6.0E-3	in/in	
Water Absorption (24 hr)	0.10	%	ASTM D570
Water Absorption (Saturation)	1.5	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break)	19500	psi	ASTM D638
Tensile Elongation (Break)	2.0 to 4.0	%	ASTM D638
Flexural Modulus	1.10E+6	psi	ASTM D790
Flexural Strength	29500	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	2.2	ft·lb/in	ASTM D256
Unnotched Izod Impact	15 to 17	ft·lb/in	ASTM D4812
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (264 psi, Unannealed)	420	°F	ASTM D648
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+2 to 1.0E+6	ohms	ASTM D257

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	175	°F
Drying Time	4.0	hr
Processing (Melt) Temp	510 to 530	°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

Notes

¹ Typical properties: these are not to be construed as specifications.

