

InLube® PA66GF50MOS2

Americhem - Polyamide 66

General Information

Product Description

InLube PA66GF50MOS2 is a 50% glass fiber reinforced, MOS2 lubricated nylon 6/6. This product provides excellent mechanical properties, as well as internal lubrication.

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East	• Europe	• North America
	• Asia Pacific	• Latin America	
Filler / Reinforcement	• Glass Fiber, 50% Filler by Weight		
Additive	• Molybdenum Disulfide 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	1.60		ASTM D792
Molding Shrinkage - Flow	1.0E-3 to 3.0E-3	in/in	ASTM D955
Water Absorption (24 hr)	1.4	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2.30E+6	psi	ASTM D638
Tensile Strength	26000	psi	ASTM D638
Tensile Elongation (Yield)	1.5 to 2.5	%	ASTM D638
Flexural Modulus	2.10E+6	psi	ASTM D790
Flexural Strength	42000	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (0.125 in)	1.6	ft·lb/in	ASTM D256
Unnotched Izod Impact (0.125 in)	16	ft·lb/in	ASTM D4812
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (264 psi, Unannealed)	480	°F	ASTM D648

Processing Information

Injection	Nominal Value	Unit
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

