

InLube® PA66GF20TF10

Americhem - Polyamide 66

General Information

Product Description

20% GLASS FIBER REINFORCED, 10% PTFE LUBRICATED NYLON 6/6

General

Material Status	• Commercial: Active
Availability	• Africa & Middle East • Europe • North America • Asia Pacific • Latin America
Filler / Reinforcement	• Glass Fiber, 20% Filler by Weight
Additive	• PTFE Lubricant: 10%
Features	• Chemical Resistant • Good Mold Release • Low Friction • Filled • High Stiffness • Lubricated • Good Dimensional Stability • High Strength • Wear Resistant
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

	Nominal Value	Unit	Test Method
Physical			
Density / Specific Gravity	1.35		ASTM D792
Molding Shrinkage - Flow	4.0E-3 to 7.0E-3	in/in	ASTM D955
Water Absorption (24 hr)	0.60	%	ASTM D570
Mechanical			
Tensile Modulus	1.00E+6	psi	ASTM D638
Tensile Strength	20000	psi	ASTM D638
Tensile Elongation (Yield)	3.0 to 4.0	%	ASTM D638
Flexural Modulus	900000	psi	ASTM D790
Flexural Strength	29000	psi	ASTM D790
Impact			
Notched Izod Impact (0.125 in)	1.5	ft·lb/in	ASTM D256
Unnotched Izod Impact (0.125 in)	13	ft·lb/in	ASTM D4812
Thermal			
Deflection Temperature Under Load (264 psi, Unannealed)	470	°F	ASTM D648
Electrical			
Surface Resistivity	1.0E+17	ohms	ASTM D257

Processing Information

	Nominal Value	Unit
Injection		
Drying Temperature	175	°F
Drying Time	4.0	hr
Suggested Max Moisture	0.20	%
Processing (Melt) Temp	530 to 570	°F
Mold Temperature	150 to 225	°F
Back Pressure	50.0 to 100	psi
Screw Speed	40 to 70	rpm

