

InLube® PA66AF10TF10

Americhem - Polyamide 66

General Information

Product Description

10% ARAMID FIBER AND 10% PTFE FILLED NYLON 6/6

General

Material Status	• Commercial: Active
Availability	• Africa & Middle East • Europe • North America • Asia Pacific • Latin America
Filler / Reinforcement	• Aramid Fiber, 10% Filler by Weight
Additive	• PTFE Lubricant: 10%
Features	• Chemical Resistant • Low Friction • Wear Resistant • Good Mold Release • Lubricated
Uses	• Closures • Engineering Parts • Industrial Parts • Consumer Applications • Household Goods • Office Automation Equipment • Electrical/Electronic Applications • Industrial Applications • Outdoor Applications
Forms	• Pellets
Processing Method	• Injection Molding

 Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.22		ASTM D792
Molding Shrinkage - Flow	0.013 to 0.019	in/in	ASTM D955
Water Absorption (24 hr)	0.90	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	530000	psi	ASTM D638
Tensile Strength	12500	psi	ASTM D638
Tensile Elongation (Yield)	8.0	%	ASTM D638
Flexural Modulus	475000	psi	ASTM D790
Flexural Strength	18000	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (0.125 in)	0.90	ft·lb/in	ASTM D256
Unnotched Izod Impact (0.125 in)	10	ft·lb/in	ASTM D4812
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (264 psi, Unannealed)	275	°F	ASTM D648
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+17	ohms	

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	175	°F
Drying Time	4.0	hr
Processing (Melt) Temp	500 to 575	°F
Mold Temperature	150 to 225	°F
Back Pressure	50.0 to 100	psi
Screw Speed	40 to 70	rpm
Vent Depth	5.0E-4 to 1.0E-3	in

