

InLube® PA66CF8TF8FRHS

Americhem - Polyamide 66

General Information
Product Description

8% CARBON FIBER REINFORCED, 8% PTFE LUBRICATED, FLAME RETARDANT AND HEAT STABILIZED NYLON 6/6

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East	• Europe	• North America
	• Asia Pacific	• Latin America	
Filler / Reinforcement	• Carbon Fiber, 8.0% Filler by Weight		
Additive	• Flame Retardant	• Heat Stabilizer	• PTFE Lubricant: 8%
Features	• Chemical Resistant	• Good Mold Release	• High Strength
	• Filled	• Halogenated	• Low Friction
	• Flame Retardant	• Heat Stabilized	• Lubricated
	• Good Dimensional Stability	• High Stiffness	• Wear Resistant
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	1.40		ASTM D792
Molding Shrinkage - Flow	3.0E-3 to 6.0E-3	in/in	ASTM D955
Water Absorption (24 hr)	0.70	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1.20E+6	psi	ASTM D638
Tensile Strength	20000	psi	ASTM D638
Tensile Elongation (Yield)	2.0 to 3.0	%	ASTM D638
Flexural Modulus	1.00E+6	psi	ASTM D790
Flexural Strength	30000	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (0.125 in)	1.0	ft·lb/in	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (264 psi, Unannealed)	475	°F	ASTM D648
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+5 to 1.0E+10	ohms	ASTM D257
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
0.06 in		V-0	
0.12 in		V-0	

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

