

InLube® PA66CF15TF15FRHS

Americhem - Polyamide 66

General Information

Product Description

15% CARBON FIBER REINFORCED, 15% PTFE LUBRICATED, FLAME RETARDED AND HEAT STABILIZED NYLON 6/6

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Filler / Reinforcement	• Carbon Fiber, 15% Filler by Weight		
Additive	• Flame Retardant	• Heat Stabilizer	• PTFE Lubricant: 15%
Features	• Chemical Resistant • Filled • Flame Retardant • Good Dimensional Stability	• Good Mold Release • Halogenated • Heat Stabilized • 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

	Nominal Value	Unit	Test Method
Physical			
Density / Specific Gravity	1.50		ASTM D792
Molding Shrinkage - Flow	3.0E-3 to 4.0E-3	in/in	ASTM D955
Water Absorption (24 hr)	0.60	%	ASTM D570
Mechanical			
Tensile Modulus	1.90E+6	psi	ASTM D638
Tensile Strength	24000	psi	ASTM D638
Tensile Elongation (Yield)	2.0 to 3.0	%	ASTM D638
Flexural Modulus	1.70E+6	psi	ASTM D790
Flexural Strength	35000	psi	ASTM D790
Impact			
Notched Izod Impact (0.125 in)	1.2	ft·lb/in	ASTM D256
Thermal			
Deflection Temperature Under Load (264 psi, Unannealed)	490	°F	ASTM D648
Electrical			
Surface Resistivity	1.0E+2 to 1.0E+6	ohms	ASTM D257
Flammability			
Flame Rating			UL 94
0.06 in		V-0	
0.12 in		V-0	

Processing Information

	Nominal Value	Unit
Injection		
Drying Temperature	175	°F
Drying Time	4.0	hr
Processing (Melt) Temp	500 to 560	°F
Mold Temperature	200	°F
Back Pressure	50.0 to 100	psi
Screw Speed	40 to 70	rpm

