

InLube® PA66CF20TF15

Americhem - Polyamide 66

General Information

Product Description

20% CARBON FIBER REINFORCED 15% PTFE LUBRICATED NYLON 6/6

General

Material Status	• Commercial: Active
Availability	• Africa & Middle East • Europe • North America • Asia Pacific • Latin America
Filler / Reinforcement	• Carbon Fiber, 20% Filler by Weight
Additive	• PTFE Lubricant: 15%
Features	• Chemical Resistant • Good Mold Release • Low Friction • Filled • High Stiffness • Lubricated • Good Dimensional Stability • High Strength • 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

	Nominal Value	Unit	Test Method
Physical			
Density / Specific Gravity	1.32		ASTM D792
Specific Volume	21.0	in ³ /lb	
Molding Shrinkage - Flow	3.0E-3 to 5.0E-3	in/in	ASTM D955
Water Absorption (24 hr)	0.60	%	ASTM D570
Mechanical			
Tensile Strength	27000	psi	ASTM D638
Tensile Elongation (Yield)	2.0 to 3.0	%	ASTM D638
Flexural Modulus	1.90E+6	psi	ASTM D790
Flexural Strength	42000	psi	ASTM D790
Impact			
Notched Izod Impact (0.125 in)	2.0	ft·lb/in	ASTM D256
Unnotched Izod Impact (0.125 in)	15	ft·lb/in	ASTM D4812
Thermal			
Deflection Temperature Under Load (264 psi, Unannealed)	475	°F	ASTM D648
CLTE - Flow	2.0E-5	in/in/°F	ASTM D696
Electrical			
Surface Resistivity	1.0E+3 to 1.0E+7	ohms	
Flammability			
Flame Rating (0.06 in)	HB		UL 94

Processing Information

	Nominal Value	Unit
Injection		
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

