

InLube® PPCF15TF15

Americhem - Polypropylene

General Information
Product Description

15% CARBON FIBER REINFORCED AND 15% PTFE FILLED POLYPROPYLENE

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	• PTFE Lubricant: 15%		
Features	• Chemical Resistant • Filled • Good Dimensional Stability	• Good Mold Release • High Stiffness • High Strength	• Low Friction • Lubricated • Wear Resistant
Uses	• Battery Cases • Closures • Connectors	• Consumer Applications • Electrical/Electronic Applications • Housings	• HVAC Applications • Industrial Applications • Industrial Parts
Forms	• Pellets		
Processing Method	• Injection Molding		

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.07		ASTM D792
Molding Shrinkage - Flow (0.125 in)	4.0E-3 to 7.0E-3	in/in	
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break)	5200	psi	ASTM D638
Flexural Modulus	900000	psi	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	0.50	ft·lb/in	ASTM D256
Unnotched Izod Impact	2.2	ft·lb/in	ASTM D4812
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+3 to 1.0E+7	ohms	ASTM D257

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	170	°F
Drying Time	2.0 to 4.0	hr
Processing (Melt) Temp	380 to 440	°F
Mold Temperature	100	°F
Back Pressure	50.0 to 100	psi
Screw Speed	40 to 70	rpm
Vent Depth	5.0E-4 to 1.0E-3	in

