

InLube® PCGF15TF15HF

Americhem - Polycarbonate

General Information

Product Description

15% GLASS FIBER REINFORCED, 15% PTFE LUBRICATED, HIGH FLOW POLYCARBONATE

General

Material Status	• Commercial: Active
Availability	• Africa & Middle East • Europe • North America • Asia Pacific • Latin America
Filler / Reinforcement	• Glass Fiber, 15% Filler by Weight
Additive	• PTFE Lubricant: 15%
Features	• Chemical Resistant • High Flow • Lubricated • Filled • High Stiffness • Wear Resistant • Good Dimensional Stability • High Strength • Good Mold Release • Low Friction
Uses	• Automotive Applications • Electrical/Electronic Applications • Industrial Applications • Closures • Engineering Parts • Industrial Parts • Connectors • Household Goods • Office Automation Equipment • Consumer Applications • Housings
Forms	• Pellets
Processing Method	• Injection Molding

 Properties ¹

	Nominal Value	Unit	Test Method
Physical			
Density / Specific Gravity	1.42		ASTM D792
Molding Shrinkage - Flow	1.5E-3 to 3.5E-3	in/in	ASTM D955
Water Absorption (24 hr)	0.080	%	ASTM D570
Mechanical			
Tensile Modulus	800000	psi	ASTM D638
Tensile Strength	12000	psi	ASTM D638
Tensile Elongation (Yield)	3.0 to 6.0	%	ASTM D638
Flexural Modulus	700000	psi	ASTM D790
Flexural Strength	18000	psi	ASTM D790
Impact			
Notched Izod Impact (0.125 in)	2.0	ft·lb/in	ASTM D256
Unnotched Izod Impact (0.125 in)	10	ft·lb/in	ASTM D4812
Thermal			
Deflection Temperature Under Load (264 psi, Unannealed)	280	°F	ASTM D648

Processing Information

	Nominal Value	Unit
Injection		
Drying Temperature	250	°F
Drying Time	4.0	hr
Suggested Max Moisture	0.020	%
Processing (Melt) Temp	560 to 600	°F
Mold Temperature	180 to 240	°F
Back Pressure	50.0 to 100	psi
Screw Speed	40 to 70	rpm

