

InLube® PCGF10TF15HFMRFR

Americhem - Polycarbonate

General Information

Product Description

10% GLASS FIBER REINFORCED, 15% PTFE LUBRICATED, FLAME RETARDANT, HIGH FLOW POLYCARBONATE WITH MOLD RELEASE

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Filler / Reinforcement	• Glass Fiber, 10% Filler by Weight		
Additive	• Flame Retardant	• Mold Release	• PTFE Lubricant: 15%
Features	• Chemical Resistant • Filled • Flame Retardant • Good Dimensional Stability	• Good Mold Release • Halogenated • High Flow • High Stiffness	• High Strength • Low Friction • Lubricated • Wear Resistant
Uses	• Automotive Applications • Closures • Connectors • Consumer Applications	• Electrical/Electronic Applications • Engineering Parts • Household Goods • Housings	• Industrial Applications • Industrial Parts • Office Automation Equipment
Forms	• Pellets		
Processing Method	• Injection Molding		

 Properties ¹

	Nominal Value	Unit	Test Method
Physical			
Density / Specific Gravity	1.42		ASTM D792
Molding Shrinkage - Flow	2.0E-3 to 4.0E-3	in/in	ASTM D955
Water Absorption (24 hr)	0.080	%	ASTM D570
Mechanical			
Tensile Strength	10700	psi	ASTM D638
Tensile Elongation (Yield)	2.0 to 4.0	%	ASTM D638
Flexural Modulus	460000	psi	ASTM D790
Flexural Strength	15500	psi	ASTM D790
Impact			
Notched Izod Impact (0.125 in)	2.3	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)	290	°F	ASTM D648
Electrical			
Surface Resistivity	> 1.0E+17	ohms	ASTM D257
Flammability			
Flame Rating			UL 94
0.04 in	V-0		
0.06 in	V-0		
0.12 in	V-0		

Processing Information

	Nominal Value	Unit
Injection		
Drying Temperature	250	°F
Drying Time	3.0 to 4.0	hr
Processing (Melt) Temp	540 to 570	°F
Mold Temperature	180 to 225	°F



Back Pressure	50.0 to 100 psi
Screw Speed	40 to 70 rpm

Notes

¹ Typical properties: these are not to be construed as specifications.

