

InLube® PEEKCF15TF15

Americhem - Polyetheretherketone

General Information

Product Description

15% CARBON FIBER REINFORCED, 15% PTFE LUBRICATED PEEK

General

Material Status	• Commercial: Active
Availability	• Africa & Middle East • Europe • North America • Asia Pacific • Latin America
Filler / Reinforcement	• Carbon Fiber, 15% 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	• Aerospace Applications • Engineering Parts • Military/Defense Applications • Connectors • Industrial Applications • Oil/Gas Applications • Consumer Applications • Industrial Parts • Outdoor Applications • Electrical/Electronic Applications • Metal Replacement • Semiconductor Applications
Forms	• Pellets
Processing Method	• Injection Molding

 Properties ¹

	Nominal Value	Unit	Test Method
Physical			
Density / Specific Gravity	1.47		ASTM D792
Specific Volume	18.8	in ³ /lb	
Molding Shrinkage - Flow	2.0E-3 to 3.0E-3	in/in	ASTM D955
Water Absorption (24 hr)	0.10	%	ASTM D570
Mechanical			
Tensile Strength	20000	psi	ASTM D638
Tensile Elongation (Yield)	1.0 to 3.0	%	ASTM D638
Flexural Modulus	1.50E+6	psi	ASTM D790
Flexural Strength	38000	psi	ASTM D790
Impact			
Notched Izod Impact (0.125 in)	1.1	ft·lb/in	ASTM D256
Unnotched Izod Impact (0.125 in)	5.0	ft·lb/in	ASTM D4812
Hardness			
Rockwell Hardness (R-Scale)	124		
Thermal			
Deflection Temperature Under Load (264 psi, Unannealed)	600	°F	ASTM D648
CLTE - Flow	1.8E-5	in/in/°F	ASTM D696
Electrical			
Surface Resistivity	1.0E+3 to 1.0E+7	ohms	
Flammability			
Flame Rating (0.06 in)	V-0		UL 94

Processing Information

	Nominal Value	Unit
Injection		
Drying Temperature	300	°F
Drying Time	4.0	hr
Processing (Melt) Temp	660 to 740	°F
Mold Temperature	350 to 400	°F



Back Pressure	50.0 to 100 psi
Screw Speed	40 to 70 rpm
Vent Depth	1.5E-3 to 3.0E-3 in

Notes

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

