InLube® PEEKCF30TF15
Americhem - *Polyetheretherketone*

General Information

Product Description

30% CARBON FIBER REINFORCED, 15% PTFE LUBRICATED PEEK

General

Material Status	• Commercial: Active

Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America

Filler / Reinforcement	• Carbon Fiber, 30% 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	• Aerospace Applications • Connectors • Consumer Applications • Electrical/Electronic Applications	• Engineering Parts • Industrial Applications • Industrial Parts • Metal Replacement	• Military/Defense Applications • Oil/Gas Applications • Outdoor Applications • Semiconductor Applications

Forms	• Pellets
Processing Method	• Injection Molding

Properties [1]

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.50		ASTM D792
Specific Volume	18.5	in³/lb	
Molding Shrinkage - Flow	1.0E-3 to 1.5E-3	in/in	ASTM D955
Water Absorption (24 hr)	0.10	%	ASTM D570

Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	33000	psi	ASTM D638
Tensile Elongation (Yield)	1.0 to 2.0	%	ASTM D638
Flexural Modulus	3.70E+6	psi	ASTM D790
Flexural Strength	50000	psi	ASTM D790

Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (0.125 in)	1.5	ft·lb/in	ASTM D256
Unnotched Izod Impact (0.125 in)	8.0	ft·lb/in	ASTM D4812

Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	124		

Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (264 psi, Unannealed)	600	°F	ASTM D648
CLTE - Flow	8.0E-6	in/in/°F	ASTM D696

Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+3 to 1.0E+7	ohms	

Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.06 in)	V-0		UL 94

Processing Information

Injection	Nominal Value	Unit
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

<div align="center">Notes</div>

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