



## InLube® PEEKGF30TF10

**PRODUCT DESCRIPTION** 30% GLASS FIBER REINFORCED, 10% PTFE LUBRICATED PEEK

**MATERIAL STATUS** Commercial: Active

**AVAILABILITY** Africa & Middle East, Asia Pacific, Europe, Latin America, North America

**FILLER / REINFORCEMENT** Glass Fiber, 30% Filler by Weight

**ADDITIVE** PTFE Lubricant: 10%

**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

PHYSICAL	NOMINAL VALUE	UNIT	TEST METHOD
Density / Specific Gravity	1.60		ASTM D792
Molding Shrinkage - Flow	2.0E-3 to 5.0E-3	in/in	ASTM D955
Water Absorption (24 hr)	0.10	%	ASTM D570
MECHANICAL	NOMINAL VALUE	UNIT	TEST METHOD
Tensile Modulus	1.70E+6	psi	ASTM D638
Tensile Strength	23000	psi	ASTM D638
Tensile Elongation (Yield)	2.5 to 4.0	%	ASTM D638
Flexural Modulus	1.60E+6	psi	ASTM D790
Flexural Strength	34000	psi	ASTM D790
IMPACT	NOMINAL VALUE	UNIT	TEST METHOD
Notched Izod Impact (0.125 in)	2.2	ft·lb/in	ASTM D256
Unnotched Izod Impact (0.125 in)	18	ft·lb/in	ASTM D4812
THERMAL	NOMINAL VALUE	UNIT	TEST METHOD
Deflection Temperature Under Load 264 psi, Unannealed	550	°F	ASTM D648

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

#### NOTES

<sup>1</sup> Typical properties: these are not to be construed as specifications.