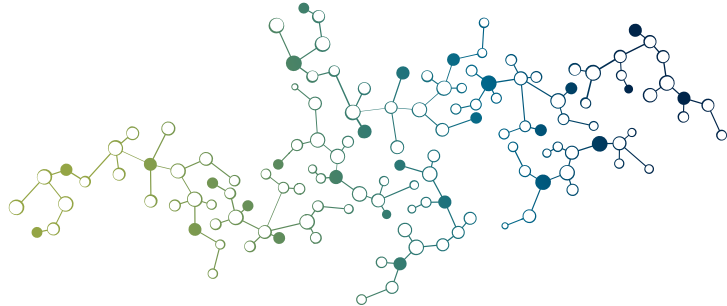




InLube® PEEKGF30TF15HFMD

PRODUCT DESCRIPTION 30% GLASS FIBER REINFORCED, 15% PTFE LUBRICATED HIGH FLOW PEEK LOCKED FORMULATION FOR MEDICAL USAGE

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: 15%

FEATURES Autoclave Sterilizable, Chemical Resistant, E-beam Sterilizable, Ethylene Oxide Sterilizable, Filled, Good Dimensional Stability, Good Mold Release, Heat Sterilizable, High Flow, High Stiffness, High Strength, Low Friction, Lubricated, Radiation Sterilizable, Steam Sterilizable, Wear Resistant

USES Connectors, Electrical/Electronic Applications, Engineering Parts, Industrial Parts, Medical/Healthcare Applications, Metal Replacement, Semiconductor Applications, Surgical Instruments

FORMS Pellets

PROCESSING METHOD Injection Molding

PHYSICAL	NOMINAL VALUE	UNIT	TEST METHOD
Density / Specific Gravity	1.58		ASTM D792
Specific Volume	17.5	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	NOMINAL VALUE	UNIT	TEST METHOD
Tensile Strength	22000	psi	ASTM D638
Tensile Elongation (Yield)	1.0 to 2.0	%	ASTM D638
Flexural Modulus	1.00E+6	psi	ASTM D790
Flexural Strength	21500	psi	ASTM D790
IMPACT	NOMINAL VALUE	UNIT	TEST METHOD
Notched Izod Impact (0.125 in)	1.6	ft-lb/in	ASTM D256
Unnotched Izod Impact (0.125 in)	8.0	ft-lb/in	ASTM D4812
HARDNESS	NOMINAL VALUE	UNIT	
Rockwell Hardness (R-Scale)	124		
THERMAL	NOMINAL VALUE	UNIT	TEST METHOD
Deflection Temperature Under Load 264 psi, Unannealed	600	°F	ASTM D648
CLTE - Flow	1.2E-5	in/in/°F	ASTM D696

ELECTRICAL

NOMINAL VALUE UNIT

Surface Resistivity	1.0E+17	ohms
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FLAMMABILITY

NOMINAL VALUE UNIT

TEST METHOD

Flame Rating (0.06 in)	HB	UL 94
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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

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