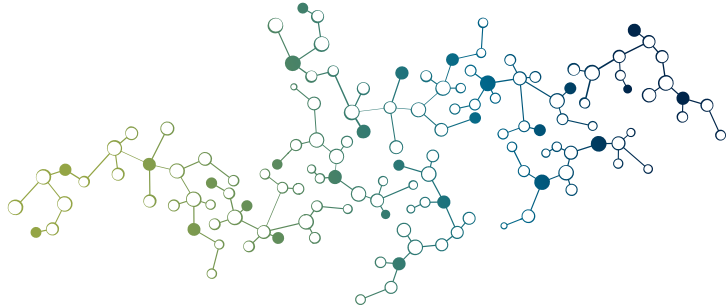




InLube® PEEKCF20TF15

PRODUCT DESCRIPTION 20% CARBON FIBER REINFORCED, 15% PTFE LUBRICATED PEEK

MATERIAL STATUS Commercial: Active

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

FILLER / REINFORCEMENT Carbon Fiber, 20% 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

PHYSICAL	NOMINAL VALUE	UNIT	TEST METHOD
Density / Specific Gravity	1.45		ASTM D792
Specific Volume	19.1	in ³ /lb	
Molding Shrinkage - Flow	1.0E-3 to 2.0E-3	in/in	ASTM D955
Water Absorption (24 hr)	0.10	%	ASTM D570
MECHANICAL	NOMINAL VALUE	UNIT	TEST METHOD
Tensile Strength	30000	psi	ASTM D638
Tensile Elongation (Yield)	1.0 to 3.0	%	ASTM D638
Flexural Modulus	2.55E+6	psi	ASTM D790
Flexural Strength	43000	psi	ASTM D790
IMPACT	NOMINAL VALUE	UNIT	TEST METHOD
Notched Izod Impact (0.125 in)	1.2	ft·lb/in	ASTM D256
Unnotched Izod Impact (0.125 in)	7.0	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	1.4E-5	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

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.