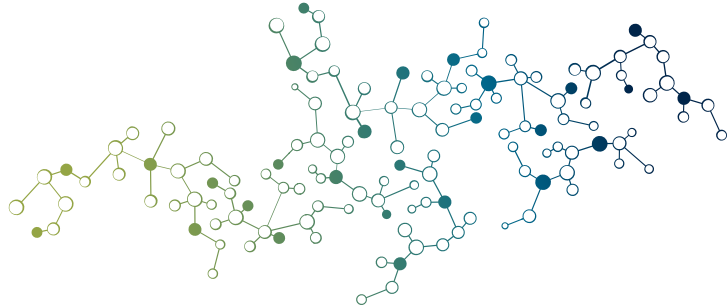




InStruc® PEEKGF30HFMD

PRODUCT DESCRIPTION 30% GLASS FIBER REINFORCED HIGH FLOW POLYETHERETHERKEYTONE 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

FEATURES Autoclave Sterilizable, E-beam Sterilizable, Ethylene Oxide Sterilizable, Filled, Good Dimensional Stability, Heat Sterilizable, High Flow, High Stiffness, High Strength, Radiation Sterilizable, Steam Sterilizable

USES Connectors, Electrical/Electronic Applications, Engineering Parts, Housings, 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	1.53		ASTM D792
Molding Shrinkage - Flow	2.0E-3 to 4.0E-3	in/in	ASTM D955
Water Absorption (24 hr)	0.10	%	ASTM D570
MECHANICAL	NOMINAL VALUE	UNIT	TEST METHOD
Tensile Modulus	1.50E+6	psi	ASTM D638
Tensile Strength	23000	psi	ASTM D638
Tensile Elongation (Yield)	2.0 to 3.0	%	ASTM D638
Flexural Modulus	1.50E+6	psi	ASTM D790
Flexural Strength	40000	psi	ASTM D790
IMPACT	NOMINAL VALUE	UNIT	TEST METHOD
Notched Izod Impact (0.125 in)	2.0	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	600	°F	ASTM D648

INJECTION	NOMINAL VALUE	UNIT
Drying Temperature	300	°F
Drying Time	4.0	hr
Processing (Melt) Temp	680 to 750	°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.