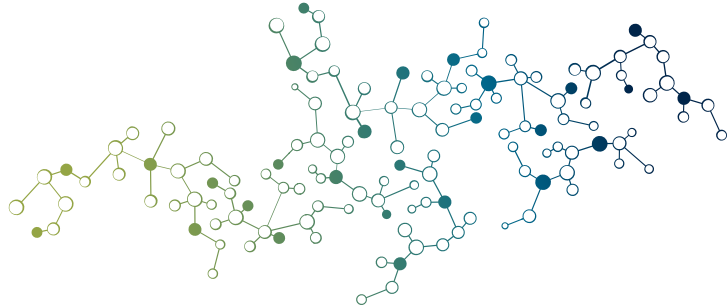




InStruc® PEEKBS6

PRODUCT DESCRIPTION 6% BARIUM SULFATE FILLED POLYETHERETHERKETONE (PEEK)

MATERIAL STATUS Commercial: Active

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

FILLER / REINFORCEMENT Barium Sulfate, 6.0% Filler by Weight

FEATURES Good Dimensional Stability, Radiopaque

USES Aerospace Applications, Connectors, Electrical/Electronic Applications, Engineering Parts, Housings, 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	1.33		ASTM D792
Molding Shrinkage - Flow	0.010 to 0.013	in/in	ASTM D955
Water Absorption (24 hr)	0.15	%	ASTM D570

MECHANICAL	NOMINAL VALUE	UNIT	TEST METHOD
Tensile Modulus	600000	psi	ASTM D638
Tensile Strength	13000	psi	ASTM D638
Tensile Elongation (Yield)	9.0	%	ASTM D638
Flexural Modulus	500000	psi	ASTM D790
Flexural Strength	17500	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	15	ft-lb/in	ASTM D4812

THERMAL	NOMINAL VALUE	UNIT	TEST METHOD
Deflection Temperature Under Load 264 psi, Unannealed	340	°F	ASTM D648

INJECTION	NOMINAL VALUE	UNIT
Drying Temperature	300	°F
Drying Time	4.0	hr
Processing (Melt) Temp	660 to 750	°F
Mold Temperature	325 to 425	°F
Back Pressure	50.0 to 100	psi
Screw Speed	40 to 70	rpm