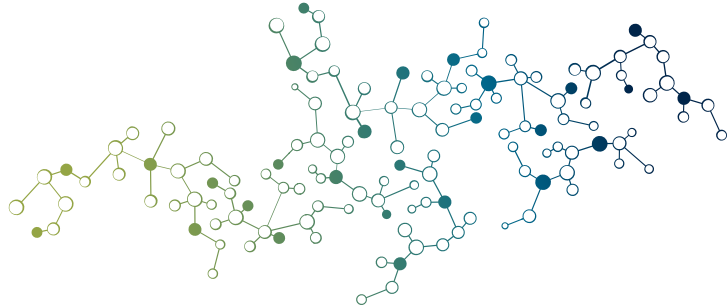




InStruc® PEEKCF40HF

PRODUCT DESCRIPTION 40% CARBON FIBER REINFORCED, HIGH FLOW, POLYETHERETHERKEYTONE

MATERIAL STATUS Commercial: Active

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

FILLER / REINFORCEMENT Carbon Fiber, 40% Filler by Weight

FEATURES Filled, Good Dimensional Stability, High Flow, High Stiffness, High Strength

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	1.45		ASTM D792
Molding Shrinkage - Flow (0.125 in)	5.0E-4 to 1.0E-3	in/in	ASTM D955
Water Absorption (24 hr)	0.060	%	ASTM D570
MECHANICAL	NOMINAL VALUE	UNIT	TEST METHOD
Tensile Strength	40000	psi	ASTM D638
Tensile Elongation (Yield)	1.0 to 2.0	%	ASTM D638
Flexural Modulus	4.20E+6	psi	ASTM D790
IMPACT	NOMINAL VALUE	UNIT	TEST METHOD
Notched Izod Impact (0.125 in)	1.8	ft·lb/in	ASTM D256
THERMAL	NOMINAL VALUE	UNIT	TEST METHOD
Deflection Temperature Under Load 264 psi, Unannealed	600	°F	ASTM D648
ELECTRICAL	NOMINAL VALUE	UNIT	TEST METHOD
Surface Resistivity	10 to 1.0E+4	ohms	ASTM D257
INJECTION	NOMINAL VALUE	UNIT	
Drying Temperature	300	°F	
Drying Time	2.0 to 4.0	hr	
Processing (Melt) Temp	680 to 710	°F	
Mold Temperature	350 to 400	°F	
Back Pressure	50.0 to 100	psi	
Screw Speed	40 to 70	rpm	