



InStruc® PEEKGB20HF

PRODUCT DESCRIPTION 20% GLASS BEAD FILLED, HIGH FLOW POLYETHERETHERKETONE

MATERIAL STATUS Commercial: Active

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

FILLER / REINFORCEMENT Glass Bead, 20% Filler by Weight

FEATURES Filled, Good Dimensional Stability, High Flow

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	1.44		ASTM D792
Molding Shrinkage - Flow	0.011 to 0.014	in/in	ASTM D955
MECHANICAL	NOMINAL VALUE	UNIT	TEST METHOD
Tensile Modulus	700000	psi	ASTM D638
Tensile Strength	14000	psi	ASTM D638
Tensile Elongation (Yield)	2.0 to 4.0	%	ASTM D638
Flexural Modulus	650000	psi	ASTM D790
Flexural Strength	19000	psi	ASTM D790
IMPACT	NOMINAL VALUE	UNIT	TEST METHOD
Notched Izod Impact (0.125 in)	0.80	ft-lb/in	ASTM D256
THERMAL	NOMINAL VALUE	UNIT	TEST METHOD
Deflection Temperature Under Load 264 psi, Unannealed	340	°F	ASTM D648
FLAMMABILITY	NOMINAL VALUE	UNIT	TEST METHOD
Flame Rating (0.06 in)	V-0		Internal Method

INJECTION	NOMINAL VALUE	UNIT
Drying Temperature	300	°F
Drying Time	4.0	hr
Processing (Melt) Temp	660 to 740	°F
Mold Temperature	350 to 450	°F
Back Pressure	50.0 to 100	psi
Screw Speed	40 to 70	rpm

NOTES

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