

## InStruc® PEKKG30

Americhem - Polyetherketoneketone

### General Information

#### Product Description

InStruc® PEKKG30 is a 30% glass fiber reinforced injection molding grade of polyetherketoneketone (PEKK) with outstanding high heat performance, good insulating properties, and very high stiffness, tensile and compressive strength. It is suitable for a wide range of applications.

#### General

Material Status	• Commercial: Active
Availability	• Africa & Middle East • Asia Pacific • Europe • Latin America • North America
Filler / Reinforcement	• Glass Fiber, 30% Filler by Weight
Features	• Filled • Good Dimensional Stability • High Stiffness • High Strength
Uses	• Aerospace Applications • Connectors • Consumer Applications • 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

### Properties <sup>1</sup>

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.54		ASTM D792
Molding Shrinkage - Flow	2.0E-3 to 3.0E-3	in/in	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1.90E+6	psi	ASTM D638
Tensile Strength	26000	psi	ASTM D638
Tensile Elongation (Yield)	2.0 to 3.0	%	ASTM D638
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (0.125 in)	1.1	ft·lb/in	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Peak Melting Temperature	680	°F	ASTM D3418

### Processing Information

Injection	Nominal Value	Unit
Drying Temperature	300	°F
Drying Time	4.0	hr
Processing (Melt) Temp	710 to 750	°F
Mold Temperature	450 to 470	°F
Back Pressure	50.0 to 100	psi
Screw Speed	40 to 70	rpm

