

## DATA SHEET

### GLASS FILLED PEEK

#### 30% Glass Reinforced Extruded Polyetheretherketone

PROPERTY	UNITS	VALUE
<b>MECHANICAL</b>		
Specific Gravity	-	1.51
Tensile Strength	psi	14,000
Tensile Modulus	psi	1,000,000
Elongation (at break)	%	2
Flexural Strength	psi	23,000
Flexural Modulus	psi	1,000,000
Compressive Strength	psi	22,000
Hardness, Rockwell	-	M103
Coefficient of Friction (Dry vs. Steel)	-	--
Limiting PV (with 4:1 safety factor)	psi x fpm	--
<b>THERMAL</b>		
Coefficient of Linear Thermal Expansion	in/in/F	$1.2 \times 10^{-5}$
Heat Deflection Temperature (264 psi)	F	450
Glass Transition Temperature	F	290
Continuous Service Temperature	F	480
Thermal Conductivity	BTU/in/hr.ft.F	2.98
<b>ELECTRICAL</b>		
Dielectric Strength	volts/mil	500
Volume Resistivity	ohm-cm	$>10^{13}$
<b>OTHER</b>		
Water Absorption, Immersion, 24 hrs.	% by wt.	.15
Water Absorption, Immersion, Saturation	% by wt.	.50

#### **ENGINEERING NOTES:**

- \* Very High Rigidity
- \* Excellent chemical resistance