

DATA SHEET

PEEK

Unfilled Extruded Polyetheretherketone

PROPERTY	UNITS	VALUE
MECHANICAL		
Specific Gravity	-	1.31
Tensile Strength	psi	16,000
Tensile Modulus	psi	500,000
Elongation (at break)	%	20
Flexural Strength	psi	25,000
Flexural Modulus	psi	600,000
Compressive Strength	psi	20,000
Hardness, Rockwell	-	M100
Coefficient of Friction (Dry vs. Steel)	-	.40
Limiting PV (with 4:1 safety factor)	psi x fpm	10,000
THERMAL		
Coefficient of Linear Thermal Expansion	in/in/F	2.60×10^{-5}
Heat Deflection Temperature (264 psi)	F	320
Glass Transition Temperature	F	290
Continuous Service Temperature	F	480
Thermal Conductivity	BTU/in/hr.ft.F	1.75
ELECTRICAL		
Dielectric Strength	volts/mil	480
Volume Resistivity	ohm-cm	4.9×10^{16}
OTHER		
Water Absorption, Immersion, 24 hrs.	% by wt.	.10
Water Absorption, Immersion, Saturation	% by wt.	.50

ENGINEERING NOTES:

- * FDA COMPLIANT
- * Superior abrasion resistance (SSI - 56)
- * Excellent chemical resistance