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## PEEK (Polyetheretherketone)

**PEEK is a crystalline high temperature thermoplastic which offers excellent thermal and chemical resistance properties. This combination of chemical resistance and temperature resistance makes it a great choice for many types of seals and anti-extrusion devices in equipment designed to serve the oil and gas and chemical processing industries .**

**Also available in 30% glass filled as well as 30% carbon fiber filled grades for added strength at temperature.**

### *TYPICAL PHYSICAL PROPERTIES*

PROPERTY	UNITS	ASTM	UNFILLED	30% GLASS	30% CARBON
Specific Gravity, 73 Deg. F.	-	D792	1.32	1.45	1.42
Tensile Strength, 73 Deg. F.	psi	D-638	23,000	14,500	24,000
Tensile Modulus of Elast, 73 Deg. F.	psi	D-638	550,000	1,400,000	1,800,000
Elongation, 73 Deg. F.	%	D-638	35	2	1
Flexural Strength, 73 Deg. F.	psi	D-790	24,000	34,000	51,000
Flexural Modulus of Elast., 73 Deg. F.	psi	D-790	600,000	1,400,000	2,000,000
Shear Strength, 73 Deg. F.	psi	D-732	7,600	14,000	14,000
Compressive Strength	psi	D-695	17,000	31,000	21,000
Coefficient of Friction (Dry vs. Steel)	-	-	0.24	0.4	-
Tensile Impact (notched), 73 Deg. F.	ft lb/in	D-256	1.5	1.8	1.6
Coefficient of Linear Therm. Expansion	in/in/F.	D-696	2.6 x 10(-5)	1.2 x 10(-5)	.80 x 10(-5)
Heat Deflection Temp. @ 264 psi	Deg. F.	D-648	320	600	600
Melting Point	Deg. F.	D-789	644	644	644
Continuous Service Temp., Air, Max.	Deg. F.	-	480	480	480
Dielectric Strength	V/mil	D-149	480	500	-
Volume Resistivity	ohm-cm	D-257	4.9 x 10(16)	5.0 x 10(16)	-
Dielectric Constant, 60Hz	-	D-150	-	-	-
Water Absorption, Immersion - 24 hrs.	%	D-570	0.15	0.15	0.15
Water Absorption, Saturation	%	D-570	0.50	0.50	0.50

This information is only to assist and advise you on current technical knowledge and is given without obligation or liability.