

TYPICAL PROPERTIES OF POLYETHERETHERKETONE (PEEK)

ASTM or UL Test	Property	Unreinforced	----- Glass Reinforced -----		30% Carbon Reinforced
			20%	30%	
PHYSICAL					
D792	Specific gravity	1.32	1.43	1.49	1.44
D792	Specific volume (in ³ /lb)	21.0	19.3	18.6	—
D570	Water absorption, 24 h, 1/8-in thk (%)	0.5	—	0.11	0.06
MECHANICAL					
D638	Tensile strength (psi)	13,300	17,800	22,800	30,200
D638	Elongation (%)	50	2.5	2.2	1.3
D638	Tensile modulus (10 ⁵ psi)				
D790	Flexural strength (psi)	24,700	27,800	33,800	46,100
D790	Flexural modulus (10 ⁵ psi)	5.3	9.7	15	18.9
D256	Impact strength, Izod (ft-lb/in of notch)	1.6	1.6	1.8	1.6
THERMAL					
C177	Thermal conductivity (10 ⁻⁴ cal-cm/sec-cm ² -°C)	6.0	—	10.4	22.1
D696	Coefficient of thermal expansion (10 ⁻⁵ in/in-°C)				
D648	Deflection temperature (°F)				
	At 264 psi	320	545	600	600
UL 94	Flammability rating, 1/8 in	V-0	V-0	V-0	V-0
ELECTRICAL					
D150	Dielectric constant				
D150	Dissipation factor				
D257	Volume resistivity (ohm-cm)				



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