



I. Mechanical Properties

	UNITS	ASTM TEST	UHMW-PE
Tensile strength	psi	D638	3,100
Flexural modulus	psi	D790	110,000
Izod impact (notched)	ft-lbs/in of notch	D256	18.0*
Heat deflection temperature @ 264 psi	°F	D648	-
Maximum continuous service temperature in air	°F		180
Water absorption (immersion 24 hours)	%	D570	slight
Coefficient of linear thermal expansion	in/in/°Fx10 ⁻⁵	D696	11.1

All values are attributes of the used raw materials.

The physical data contained in this table are typical values. They are obtained on test specimens under specific conditions and represent average values of a large number of tests. The results obtained on these test specimens cannot be applied to finished parts without reservations, as behaviour is influenced by processing and shaping.

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