



Very High Molecular Weight Polyethylene (VHMW-PE)

Tolerances

Gauges

Width/Length

1/8" - 1" ± 5%

Plus Only at Room Temp.

Properties

Units

ASTM

Nominal Value*

Density	g/cc	D1505	.950
Tensile Strength @ Yield	p.s.i.	D638	>3,800
Elongation @ Break	%	D638	>800
Flexural Modulus	p.s.i.	D790	155,000
Durometer	Shore D	D2240	65
Izod Impact Strength	J/M	D256	No Break
Brittleness Temp.	°F	D746	<-36.4°
Vicat Softening Temp.	°F	D1525	255°
Heat Deflection Temp. 66p.s.i.	°F	D648	160°
Co-efficient of Thermal Expansion	in./in./°F	D696	7.0x10 ⁻⁵

Relative Volumetric Abrasion

Sand Slurry Test

Hy_Pact® UH Polymer (UHMW-PE)	12
Hy-Pact® VH Polymer (VHMW-PE)	40
High Density Polyethylene	110

* Tested in a 50/50 mix of sand/water for 8 hours at 1700 RPM.

- All values are determined on specimens prepared according to ASTM D4976

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