



Hy-Pact VH (King)

Very High Molecular Weight Polyethylene

Sheet Tolerances

Gauges	Width/Length
1/8" - 3/4" ± 5% • 1 1/2" and over + only	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.	°C	D746	<-38
Vicat Softening	°C	D1525	124
Heat Deflection Temp. 66p.s.i.	°C	D648	71
Co-efficient of Thermal Expansion	in./in.°F	D696	7.0x10 ⁻⁵

Relative Volumetric Abrasion

Sand Slurry Test

Hy_Pact® Polymer (UHMW-PE)	12
Hy-Pact® 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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