



Description: VHMW is environmentally stabilized, making it ideal for indoor and outdoor applications. FDA and USDA approved, with an opaque, white color for a sanitary look. Smooth, non-skived finish has a low friction coefficient for better material flow. Not affected by most aqueous acids, alkalis or salt solutions. Suitable for deep-freeze or electrical insulation operations.

Thermal and Mechanical Properties:

Density (g/cm ³)		
ASTM	D792	0.95
Tensile Properties		
Maximum Strength (PSI)		
ASTM	D638	3800 psi
Elongation at Break (%)		
		600
Impact Brittleness Temperature (degrees F)		
ASTM	D746	-100
Impact Strength (ft-lbs/in ²)		
ASTM	D256	No Break
Hardness, shore D		
ASTM	D2240	68
Coefficient of Kinetic Friction		
Carbon Steel vs. Hy-Pact VH		
ASTM	D1894	.18 vs. .24
Heat Deflection Temperature at 66 psi (degrees F)		
ASTM	D648	160
Vicat Softening Point (degrees F)		
ASTM	D1525	255
Coefficient of Linear Thermal Expansion (in/in/degrees F)		
ASTM	D696	7.0 x 10 ⁻⁵

Abrasion Resistance:

King Plasic Corp. Sand Slurry Test

Sand-slurry test vs. carbon steel, with carbon steel assigned the value of 100. Lower values indicate lower weight loss/greater abrasion resistance.

Taber Industries Abrasion Test

Average weight loss in grams after 5,000 cycles.

Material	Relative Value	Weight Loss
Steel	100	.57
King Hy-Pact® UH	4	.0115
King Hy-Pact® VH	15	.038
HMW PE	21	.046
HDPE	36	.056

The values quoted are typical lab results and must not be regarded as supply specification.

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