



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 (<i>g/cm³</i>)		
ASTM	D792	0.95
Tensile Properties		
Maximum Strength (PSI)		
ASTM	D638	3800 psi
Elongation at Break (%)		
		600
Impact Brittleness Temperature (<i>degrees F</i>)		
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 (<i>degrees F</i>)		
ASTM	D648	160
Vicat Softening Point (degrees F)		
ASTM	D1525	255
Coefficient of Linear Thermal Expansion (<i>in/in/degrees F</i>)		
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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