

## UHMW Sheet, Rod, & Wear Strips



UHMW Sheets are stocked in thicknesses from 1/8" to 3"; Standard width 48"; Standard lengths are 96" and 120". Sheets 144" long also available. A variety of colours are available (price premium applies)

To order sheet, specify grade, thickness, width, and length.  
Example: UHMW-RPR BLK 1/2 x 48 x 120

Grades: Virgin natural (white)	UHMW-NAT	Cross-linked	UHMW-XL
Virgin (coloured)	UHMW-VIR ( <i>colour</i> )	Anti-static	UHMW-SR
Reprocessed (black)	UHMW-RPR BLK	Cross-linked & anti-static	UHMW-XL/SR
Reprocessed (green)	UHMW-RPR GRN	UV stabilized	UHMW-UV
Cross-linked & UV stab.	UHMW-EX	Extra low-friction	UHMW-SL



UHMW Solid Rods are stocked in diameters from 1/2" to 6". Standard rod length is 10 ft. but rods are sold in one foot increments. For 8" dia and larger, 10 ft min. lengths apply.

To order rod, specify grade, diameter, and length.  
Example: UHMW-NAT Rod 2" dia. X 5 ft.

## UHMW—PE : Ultra High Molecular Weight Polyethylene Physical Properties : Natural Virgin

Typical Properties	Value	Test Methods
Density, g/cm <sup>3</sup>	0.93	ASTM D 792
Vicat softening point, °C	136	ASTM D 1525B
Hardness, Rockwell R Scale Durometer (D/15)	64	ASTM D 785
	68	ASTM D 2240
Deflection temperature °C	At 66 psi	ASTM D 648
	At 264 psi	
Tensile properties	Maximum strength, psi	ASTM D 638 2 in./min
	Yield strength, psi	
Elongation at yield, %	4	
Elongation at break, %	300+	
Flexural modulus, 1% secant, psi	110,000	ASTM D 790B
Izod impact strength at 23°C, ft-lbs/in.	No break 20+	ASTM D 256A HIMONT 116
Tensile impact, ft-lbs/in <sup>2</sup> .	400	ASTM D 1822
Shear strength, psi	4,000	ASTM D 732

Typical Properties	Value	Test Methods	
Flexural modulus of elasticity, psi	77,000	Bend-creep test 1-min value	
Mean coefficient of linear thermal expansion per °C	-30° to 0°C	ASTM D 696	
	0° to 30°C		1.27x10 <sup>-4</sup>
	30° to 60°C		2 x 10 <sup>-4</sup>
Coefficient of friction against Cr-plated steel at 23°C	Static	ASTM D 1894 (Modified)	
	Dynamic		.19-.22
	Abrasion Index (Relative to steel at 100)		.14-.16
Specific heat at 23°C	10	Sand Slurry	
cal/g, °C	0.48	Differential scanning calorimeter	
Dielectric constant 60 cycles to 10 <sup>6</sup> cycles	2.3-2.35	ASTM D 150	
Dissipation factor, 60 cycles to 10 <sup>6</sup> cycles	<0.5x10 <sup>-3</sup>	ASTM D 150	