

# IPX 2000 UHMW

## Advanced Wear Technology UHMW

Serious wear problem? Call us today! (888) 768-5759

### IPX 2000 Overview

IPX advanced wear technology UHMW is an advanced, engineered polyethylene compound that has greater benefits than standard UHMW, yet still meets the ASTM requirements for Ultra-High Molecular Weight (UHMW) plastic.

Available exclusively from Interstate Plastics, this extremely durable material has been developed to improve performance in existing plastic applications, and to replace metals in more demanding situations, especially where abrasion resistance and toughness is key.

### IPX Features

**Availability:**

IPX 2000 comes standard in burgundy red. Sheet sizes are available as large as 48"x120" and in custom cut-to-size dimensions.

**Improved Abrasion Resistance:**

IPX advanced wear technology UHMW improved from 16 to 7 compared to standard UHMW in a standard slurry test. This lower number indicates as much as a 40% increase in wear resistance over competitors grades of UHMW.

**Lower Coefficient of Friction:**

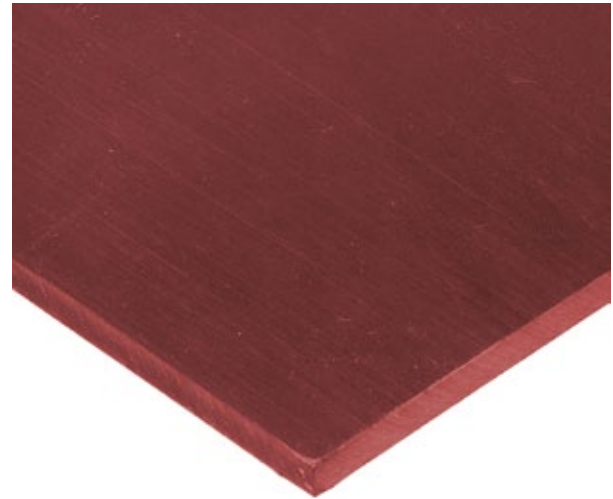
The additives in IPX allow for added slip; as much as 30% more. This added slip decreases part wear in nearly all applications.

**Decreased Thermal Expansion/Contraction:**

The formulation of IPX advanced wear technology UHMW allows for more stability and less part expansion and contraction, thus allowing for closer part tolerances and fit.

**Fully UV Stabilized:**

IPX advanced wear technology UHMW is UV stabilized for long term exposure in outdoor applications. You will experience an increased useful life and consistent performance in a wide range of temperatures and conditions.



Custom dimensions up to 48"x120" offered  
Thickness available from 0.25" to 2"

### IPX Specifications

PROPERTY	TEST METHOD	UNIT	VALUE
Specific Gravity	ATSM D792	G/cm <sup>3</sup>	.93-.94
Tensile, Ultimate	ATSM D638	psi	5400 - 6000
Elongation at Break	ATSM D638	%	340 - 370%
Flexural Modulus	ATSM D790	psi	110k - 130k
Thermal Expansion	ATSM D648	in./in./ °F	5.5x10 <sup>-5</sup>
Hardness [R]	ATSM D785	--	62 - 67
Abrasion	Sand Slurry	--	7 (Best)
Izod Impact	ATSM D256	ft. lbs. (Notch)	No-Break
Coefficient Friction (versus steel)	ATSM D1894	--	.09 - .19

### IPX Applications

Applications for IPX are the same as UHMW and include Gears, Springs, Plates, Bushings and Housings. IPX UHMW is not approved for food contact.

- **Industrial:** Conveyor Guide Rails, Belt Scrapers, Chain Guides, Suspension Wear Plates, Rider Plates, Idler Rollers, Guide Shoes, Wear Strips and Shoes
- **Machined Parts:** Sprockets, Wheels, Bearings, Component Parts, Pinion Gears, Flanged Rollers