



IPX 2000 UHMW

Advanced Wear Technology UHMW

Description and 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.

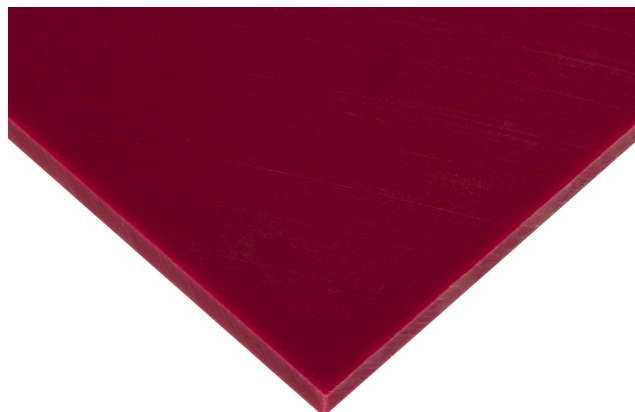
Available exclusively from Interstate Advanced Materials, IPX 2000 was developed to improve performance in existing plastic applications, and to replace metals in more demanding situations, especially where abrasion resistance and toughness are key.

IPX sees as much as a 40% increase in wear resistance over competing UHMW grades and its additives enhance slip by up to 30% more.

Applications and Uses

IPX 2000 is burgundy red in color and is UV-stabilized for long-term exposure in outdoor applications. Applications for IPX are the same as virgin UHMW.

- Gears, bearings, sprockets
- Conveyor guard rails
- Wear strips
- Bump stops
- Belt scrapers, belt cleaners
- Rider plates for assembly lines, guide shoes
- Machining components
- Truck bed liners, chute liners
- Dock fenders and panels
- Chain guides, wheels, components parts
- Pinion gears, flanged rollers, idler rollers
- Waste-water treatment products



IPX 2000 is available from Interstate Advanced Materials in custom cut-to-size dimensions up to 48" x 120".

Full sheet: 48" x 120" (0.25" through 2" thick)

Properties and Specifications

Property	IPX 2000
Specific Gravity (g/cm. ³)	.93 - .94
Tensile, Ultimate (psi)	5,400 - 6,000
Elongation @ Break	340 - 370%
Coefficient of Friction (vs steel)	.09 - .19
Izod Impact, Notched (ft-lbs/in.)	No-Break
Flexural Modulus (ksi)	110 - 130
Hardness, Rockwell	62 - 67
Abrasion (Sand Slurry)	7 (Best)
Thermal Expansion in./in./°F	5.5 x 10 ⁻⁵
Affixable Properties	Mech

Properties are typical.
Chem is an abbreviation for chemically affixed with glues, chemicals, or adhesive.
Mech is an abbreviation for mechanically affixed bonding.
Field testing is recommended for any application.

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