



Reprocessed UHMW

Ultra-High Molecular Weight Polyethylene

Description and Overview

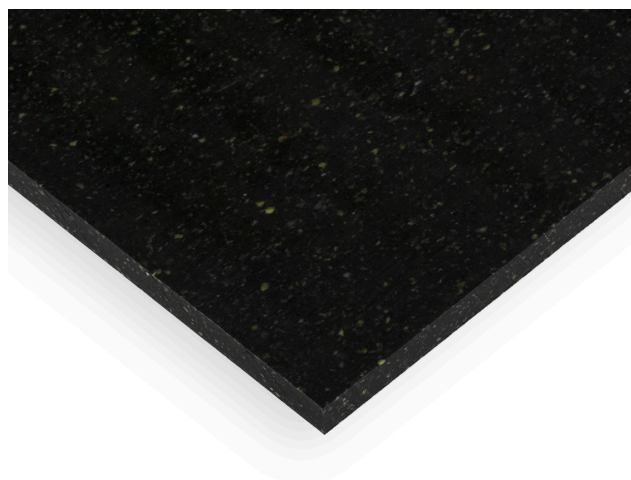
Reprocessed UHMW polyethylene utilizes recycled UHMW in its composition, making it a greener and more economical alternative in applications where virgin UHMW is not essential. Reprocessed UHMW sheet serves as a cost-effective alternative to virgin grade UHMW, providing excellent value when it comes to applications that do not require FDA approval. Reprocessed UHMW-PE offers all the same benefits of standard UHMW-PE sheets but at a much more cost-effective price. It has the same low coefficient of friction as standard UHMW while also offering slightly better wear resistance.

Reprocessed UHMW is self-lubricating and a great alternative to metals that require external lubrication like grease or oil. Internal lubrication greatly extends part life and contributes to its extremely low coefficient of friction.

Applications and Uses

Reprocessed UHMW can be fabricated for use where excellent wear properties are required, such as conveyor guard rails, guide shoes, belt scrapers, suspension wear plates, idler rollers, and chute, hopper, and bin liners. Reprocessed UHMW can also be used for smaller mechanical parts.

- Conveyor guard rails
- Belt scrapers
- Suspension wear plates
- Idler rollers
- Guide shoes
- Wear strips
- Sprockets
- Bushings
- Housings
- Wheels
- Bearings
- Component parts
- Pinion gears
- Flanged rollers



Reprocessed UHMW is available in black and green colors.
Max sheet size: 48" x 120" (.187" to 3" thick)

Properties and Specifications

Density	Reprocessed UHMW
Tensile strength at yield 73°F	0.935
Elongation	3,000
*Relative volumetric abrasion loss	290
Coefficient of friction 73°F on steel	0.17 - 0.20 0.10 - 0.20
Izod Impact Strength 73°F	96
Hardness 73°F	D 63 - 69
Melting point	275°F - 280°F
Coefficient of linear thermal expansion	1.9×10^{-4}
Continuous service temperature in air (max)	180
Volume resistivity	$>10^{15}$
Dielectric constant (103 Hz)	-
Dielectric strength	900

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.

