

Slideways Materials

All UHMW grades offer the benefits of:

- Noise reduction
- Self-lubrication
- Chemical resistance
- Corrosion resistance
- Low friction
- No moisture absorption



UHMW Materials

Material	Benefits	Industries	Applications
Nat. UHMW	<ul style="list-style-type: none"> • Meets FDA and USDA guidelines • 3-A Dairy approved 	<ul style="list-style-type: none"> • Agriculture • Bottling • Canning • Conveyor manufacturers • Food processing • Packaging • Material handling • Waste water treatment 	<ul style="list-style-type: none"> • Augers • Bearings • Chain sprockets • Chain guides • Chain tensioners • Chute liners • Deboning tables • Filter press plates • Flight wearshoes • Flights • Gears • Guide rails • Hopper liners • Idlers • Mixer bushings • Mixer paddles • Plow blades • Roller chain • Scraper blades • Spiral freezers • Spreaders • Sprockets • Trough liners • Wearstrips
Repro/UHMW	<ul style="list-style-type: none"> • Reprocessed UHMW • Available in green or black 	SEE NAT. UHMW	SEE NAT. UHMW
OF/UHMW (Oil-filled)	<ul style="list-style-type: none"> • Oil-filled for lower friction • Meets FDA and USDA guidelines 	<ul style="list-style-type: none"> • Agriculture • Bottling • Dairy • Food processing/handling • Packaging 	<ul style="list-style-type: none"> • Bottling cam guides • Chain radius guides • Chain tensioners • Chain wearstrips • Entry/exit tables • Bow curves • Roll-end bearings • Roller chain guides • Star wheels • Wearstrips
CS/UHMW (Tivar® Clean-Stat)	<ul style="list-style-type: none"> • Anti-static • Meets FDA and USDA guidelines • 3-A Dairy-approved 	<ul style="list-style-type: none"> • Food packaging • Bulk food handling 	<ul style="list-style-type: none"> • Chute liners • Fabricated parts • Hopper liners • Vibratory feeder pans
CP/UHMW (Ceram P®)	<ul style="list-style-type: none"> • Glass-filled UHMW • High load, high-speed • High tensile strength 	<ul style="list-style-type: none"> • Agriculture • Lumber processing • Material handling • Pulp and paper mills • Steel mills 	<ul style="list-style-type: none"> • Bearing pads • Chain guides • Rollers • Bushings • Pump impellers • Wire belt pulleys
DS/UHMW (DrySlide)	<ul style="list-style-type: none"> • Anti-static • Ideal for dusty environments • Helps reduce surging • Non-marring • Dry lubricant formula 	<ul style="list-style-type: none"> • Unit material handling • Conveyor equipment • Parcel handling • Distribution centers 	<ul style="list-style-type: none"> • Belt skirting • Chute liners • Dead plates • Diverter bars • Gravity flow apps • Hopper liners • Guide rollers • Roller covers • Transfer plates • Wearstrips
AS/UHMW (Anti-Static)	<ul style="list-style-type: none"> • Anti-static formula • Protects against electrical charge build-up 	<ul style="list-style-type: none"> • Chemicals • Explosives • Electronics • Grain handling • Package handling 	<ul style="list-style-type: none"> • Electronics assembly • Bearings • Chain guides • Chute liners • Conveyor components • Discharge spout liners • Flights • Guide rails • Robotics parts • Slide liners • Table surfaces • Transfer plates • Tough liners • Wearstrips
HT/UHMW (High-Temperature)	<ul style="list-style-type: none"> • High-temperature UHMW • 275° F operating temperature • Inhibits oxidation, extends material wear-life • Excellent release characteristics • Meets FDA guidelines, USDA and 3-A Dairy compliant 	<ul style="list-style-type: none"> • Baking • Conveyor manufacturing • Food processing • Meat & poultry processing • Pet food manufacturing 	<ul style="list-style-type: none"> • Chain guides • Wearstrips, pads, and plates • Machined parts • Drying equipment
UV/UHMW (Ultraviolet-Protected)	<ul style="list-style-type: none"> • Ultraviolet resistant • Retains key properties up to 3X longer during outside use than non-UV formulations 	<ul style="list-style-type: none"> • Agriculture • Marine/Seaports • Recreation • Transportation 	<ul style="list-style-type: none"> • Amusement parks • Boat rubrails • Combine skid plates • Dump trailer liners • Plow board liners • Sand/salt boxes • Fertilizer spreaders • Sprockets • Trough liners • Water slide liners • Wearstrips
Tivar 88® (Special lining formula)	<ul style="list-style-type: none"> • Promotes reliable, steady bulk material flow • Low coefficient of friction • No moisture absorption • Reduces or eliminates arching, ratholing, and erratic flow 	<ul style="list-style-type: none"> • Power generating plants • Rail car liners • Steel mills • Cement plants • Chemical plants • Grain handling • Mining 	<ul style="list-style-type: none"> • Belt scrapers • Screw conveyor liners • Chain conveyor flights • Chute liners • Vibratory feeder liners • Transfer chute liners • Chain guides • Drag chain conveyor liners • Bunker liners • Silo liners • Slider beds • Storage bin liners • Conveyor skirting • Cyclones • Hopper liners • Wearstrips

Material	Benefits	Industries	Applications
HDPE	<ul style="list-style-type: none"> High-density P/E Low cost Meets FDA guidelines, USDA and 3-A Dairy compliant 	<ul style="list-style-type: none"> Low-wear applications 	<ul style="list-style-type: none"> Cutting boards Star wheels
	<ul style="list-style-type: none"> Natural nylon Toughness Meets FDA guidelines 		<ul style="list-style-type: none"> Machine parts Sprockets
MD-Nylon	<ul style="list-style-type: none"> MDS-filled Nylon High-speed, high-load capacity 	<ul style="list-style-type: none"> Conveyers Packaging machinery 	<ul style="list-style-type: none"> Corner tracks Sprockets Chain guides Wheels Cams
Acetal	<ul style="list-style-type: none"> Acetal or Delrin® Excellent stability Meets FDA guidelines 	<ul style="list-style-type: none"> Pharmaceutical equipment 	<ul style="list-style-type: none"> Cams Wheels Machine components
PTFE (Glass-filled)	<ul style="list-style-type: none"> Teflon® Operates to 450°F Glass-filled and graphite-filled grades improve load capacity 	<ul style="list-style-type: none"> Bakery equipment Chemical applications 	<ul style="list-style-type: none"> Wear strips Bearings Wear pads
Lexan®	<ul style="list-style-type: none"> Impact-resistant Clear 	<ul style="list-style-type: none"> Packaging equipment 	<ul style="list-style-type: none"> Covers Guards
OF Nylon	<ul style="list-style-type: none"> Oil-filled nylon High load capacity Low coefficient of friction 	<ul style="list-style-type: none"> Agriculture Construction Conveyers 	<ul style="list-style-type: none"> Sprockets Bushings Wear parts
Wood (Lube-Filled)	<ul style="list-style-type: none"> Lubricant filled Hard maple 	<ul style="list-style-type: none"> Conveyers Screw conveyors 	<ul style="list-style-type: none"> Bow curves Chain guides Hanger bearings
Ertalyte® (PET-P) Ertalyte®-TX (internally lubricated)	<ul style="list-style-type: none"> Excellent dimensional stability High strength & stiffness Good wear resistance Resistant to acids & chlorine bleach solutions FDA compliant 	<ul style="list-style-type: none"> Food processing Pharmaceuticals Packaging equipment Process & test equipment 	<ul style="list-style-type: none"> Machine components Manifolds High pressure valves
Fluorosint® (PTFE)	<ul style="list-style-type: none"> Chemical resistant Continuous operation to 500°F Higher load capacity than PTFE Fluorosint®207 is FDA compliant 	<ul style="list-style-type: none"> Pumps Fluid power Food processing 	<ul style="list-style-type: none"> Machine components Bearings & bushings Valve seats
Ketron® PEEK PEEK GF30 (30% glass filled) PEEK CA30 (30% carbon fiber reinforced) PEEK LSG (Life Science Grade)	<ul style="list-style-type: none"> Chemical resistant Very low moisture absorption Good wear and abrasion resistant Unaffected by continuous exposure to hot water or steam 	<ul style="list-style-type: none"> Pumps Fluid power Machine components Medical components 	<ul style="list-style-type: none"> Bearings & seals Pump wear rings Chemical process components



Rulon® Wide temperature range (-400° to +550°F), low coefficient of friction, abrasion resistance and chemically inert

Torlon® Available unfilled, glass and carbon filled. High temperature (500°F), excellent wear characteristics

Micarta® A thermo set plastic known for excellent electrical insulating characteristics

Ultem® Resistant to steam and hot water, excellent dielectric properties, inherently flame retardant

PVC Pipe is used for rollers and sheets for structural applications

Polysulfone A transparent material most often used for its dielectric characteristics

BluLub® Enhanced - Performance - UHMW-PE

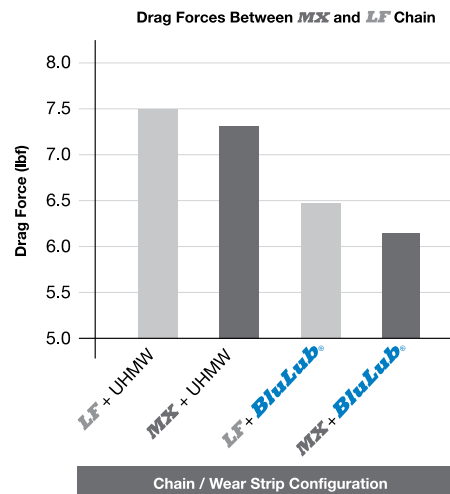
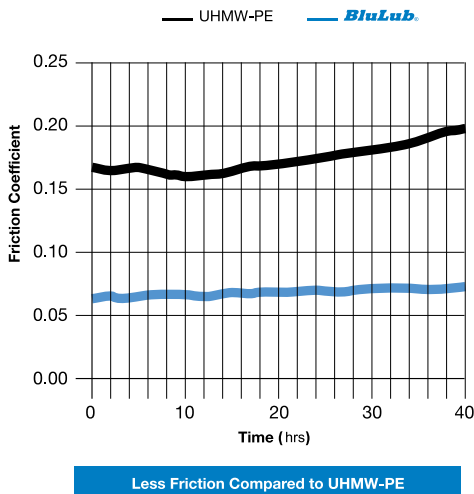
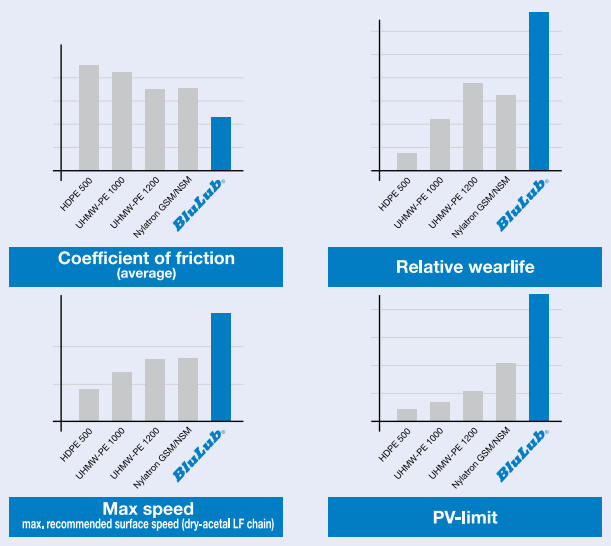
BluLub® is a new high-performance compounded UHMW-PE material with the latest generation of solid lubricants. **BluLub®** contributes to improve PV-properties compared to standard UHMW-PE, especially in applications with limited lubrication, higher speeds and/or higher loads. **BluLub®** requires less energy and with the lower coefficient of friction, improves the product stability and wear life of chains and modular belts.

Properties:

- UHMW-PE Polyethylene with molecular density 9,200,000 g/mol.
- Operating temperature: -40 to + 80°C (-40 to 176°F)
- BluLub complies with the Code of Federal Regulations of FDA

Advantages:

- *Running dry*
- *High speed*
- *Reduced noise and squeaking*
- *Lower Coefficient of Friction*
- *Longer wearlife*
- *Less energy consumption*
- *Smooth and quiet chain running*



Slideways Metal Detectable UHMW



Food Processors: Reduce the Risk of Liability and Recalls with Slideways Metal Detectable UHMW Components for Food Processing Equipment

**Catch contamination through Metal Detectors
Contrasting color enables Visual Detection**

This UHMW material can help reduce waste and costly product recalls

Additional Metal Detectable Materials:

Acetal
Nylon
PEEK



Replace your existing plastic components with METAL DETECTABLE chain guides, wear strips, belt guides and other custom parts from Slideways

PROPERTIES OF METAL DETECTABLE UHMW

Property	Units	UHMW
Density	g/cm ³	0.949
Elongation	%	320
Wear by sand-slurry test	Nat. UHMW =100	88
Constant service temperature-max.	F°	180

Metal Detectable UHMW Chain Guide

Applications

- wear-strips
- pillow blocks
- guides
- sprockets
- bushings and bearings
- scraper blades
- chain guides & tracks
- gears
- mixer components

Common food applications that benefit from the use of Metal Detectable Material:

- + Frozen & prepared foods
- + Soups & Chili
- + Snack Foods
- + Chips & Tortillas
- + Cheese
- + Ice Cream
- + Candy
- + Bread & Pastries