

UHMW 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 	<ul style="list-style-type: none"> • 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	<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 	<ul style="list-style-type: none"> • 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 	<ul style="list-style-type: none"> • 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 	<ul style="list-style-type: none"> • 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 	<ul style="list-style-type: none"> • 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 	<ul style="list-style-type: none"> • 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 	<ul style="list-style-type: none"> • 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 	<ul style="list-style-type: none"> • 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 	<ul style="list-style-type: none"> • Bunker liners • Silo liners • Slider beds • Storage bin liners • Conveyor skirting • Cyclones • Hopper liners • Wearstrips

Non-UHMW Materials

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
Nylon 6	<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 500°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
Ertalyle® (PET-P) Ertalyle®-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