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REDCO
NEPTUNE™

FDA MATERIALS
COMPLIANT MATERIALS

ALL AVAILABLE
IN BLUE AND WHITE



Redco™ Neptune™ Materials

Our Redco™ Neptune™ line of materials have all been specifically engineered for the food and beverage industry. Extreme temperatures, sanitation and contamination can cause frustrating problems in food processing environments. Redwood Plastics and Rubber products can resolve many of these frustrations with materials that are non-conductive, chemical resistant, FDA/USDA/3A Dairy compliant, and impervious to hot and cold temperatures. Redco™ Neptune™ materials are the perfect solution for parts that are wearing out prematurely due to rust or chemical wash-downs. Contact us to learn more about our fabrication and machining capabilities for quality finished parts.

BENEFITS

- REDUCED ENERGY CONSUMPTION
- DETECTABLE MATERIALS TO PREVENT CONTAMINATIONS
- LESS STRESS ON ALL PARTS OF CONVEYOR SYSTEMS
- LONGER PART LIFE
- INCREASED PROCESS STABILITY
- LOWER NOISE EMISSIONS
- INCREASED PRODUCTION SPEEDS
- LONGER MAINTENANCE INTERVALS
- OPTIMIZED PRODUCT FLOW

Redco™ Neptune™ Colored UHMW, Acetal & Nylon

White materials can be hard to visually detect if they have fallen into the production process. Fortunately white isn't your only option in regards to FDA Approved UHMW, Acetal and Nylon materials. We also offer a variety of colors to make it easy to spot the slightest contamination. Blue materials being the most popular choice – because no food is blue.

APPLICATIONS: BEARINGS, BUSHINGS, SEALS, SLIDES, SCRUBBERS, HOUSINGS, TANKS, VALVES, WASHERS, WEAR PLATES, BUMPER PADS, CHAIN WEAR PARTS, WEAR STRIP, SLIDES, GUIDES, WEAR LINERS, GASKETS, TUBING HOSES, SPACERS, DIAPHRAGMS, SPROCKETS, ETC.



Reduce Energy Consumption

Redco™ PVC (Flexible Vinyl)

Redco™ PVC strip door and partitions contain heated or cooled air resulting in energy savings lost from unprotected openings. Dust, dirt and other contaminants also remain contained to reduce overall clean up costs. We offer a wide range of vinyl PVC for either pedestrian use and/or light traffic right up to heavy vehicle traffic such as fork-lift trucks.

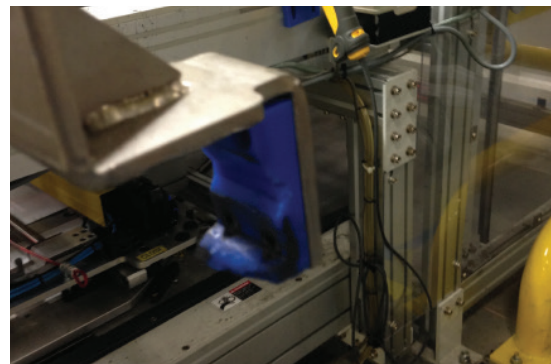
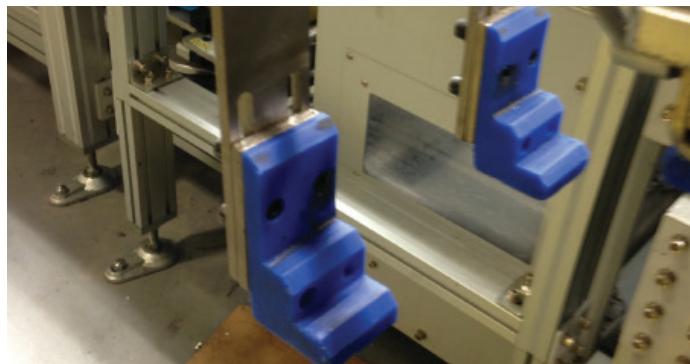
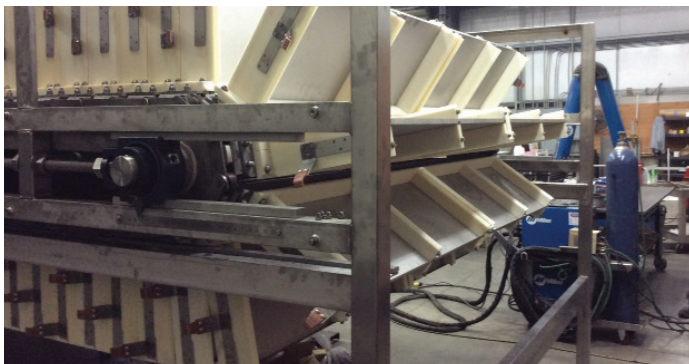
Easy to clean, easy to replace and outstanding value. Redco™ Flexible PVC creates a safer and more productive work environment by providing protection from noise and harsh working environments while creating an easy to use, fully visible passageway for personnel, animals, product and machinery.

- ROLL, STRIPS, CURTAINS, PANELS AND FILMS
- RIBBED, REINFORCED, ROUNDED EDGES, MAT SURFACE
- ANTI-UV, ANTI-INSECT, ANT-STATIC, ANTI-BACTERIAL, FIRE RETARDANT, FOOD CONTACT, SEMI-RIGID AND COLOURED VARIETIES AVAILABLE

APPLICATIONS: SWING AND STRIP DOORS, FREEZER DOORS, TEMPERATURE CONTROL ROOM DIVIDERS, CONVEYOR OPENINGS, REFRIGERATED TRUCKS, WELDING CURTAINS, BIN ENCLOSURES, MACHINE ENCLOSURES, PERSONNEL DOORS, LOADING DOCK/RECEIVING DOORS, STORAGE AREA ENCLOSURES, CRANEWAY ENCLOSURES, EXTERIOR OPENINGS, TRUCKS AND DUMPER PROTECTION, ETC.



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Avoid Contaminations

Redco™ Neptune™ Metal Detectable UHMW

Food processors face the ever present risk of contamination finding its way into their product. The risks and potential financial losses can be significant if not detected early.

The unique additives in this product allow it to be easily traced by standard metal detectors while continuing to provide the outstanding wear resistance and sliding properties you would expect from Redco™ UHMW.

Designed to replace machined parts made from steel and lower performing plastics, this engineering polymer has high-impact strength, is easily machined and has no moisture absorption.

Redco™ Neptune™ Metal Detectable UHMW complies with FDA regulations concerning direct contact with food. Every food processor that utilizes metal detectors in their processing or packaging operations can benefit from the processing advantages and increased safety of using Redco™ Neptune™ Metal Detectable UHMW.

Redco™ Neptune™ Metal Detectable Acetal

Redco™ Neptune™ Metal Detectable Acetal has special additives that allow it to be traced by standard metal detectors and removed before causing further contamination. Quality assurance engineers at some of the largest food processing manufacturers in the world have tested this product and found it to be highly effective.

The important mechanical, thermal and chemical resistance properties remain unchanged from standard Redco™ Acetal. It is easily machined and has excellent dimensional stability for close tolerance parts. Redco™ Neptune™ Metal Detectable Acetal also complies with FDA regulations concerning direct contact with food.

APPLICATIONS: SCRAPER BLADES, FILLERS, MIXER COMPONENTS, WEAR PLATES, WEAR STRIP, HOPPER GUIDES, FILLER PLATES, BAFFLES, PILLOW BLOCKS, CUPS & SLEEVES, DIVIDERS, POCKET FILLERS, VOLUMETRIC FILLERS, CUPS & SLEEVES, PISTON FILLERS, WEAR STRIP, ETC.

Ensure Safety & Quality

Redco™ Neptune™ X-Ray Detectable UHMW

Today's processors are turning to x-ray inspection equipment especially in post-package inspection. The need for traceable plastic machined parts for filling, sorting, and packaging machinery is critical due to strict FDA regulations regarding foreign materials and contaminants.

Redco™ Neptune™ X-ray Detectable UHMW has proven to be detected with a particle size as small as a 3mm cube at running speeds as fast as 250 feet-per-minute.

Redco™ Neptune™ X-Ray Detectable Acetal

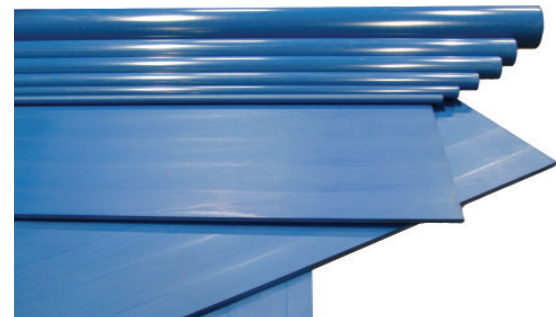
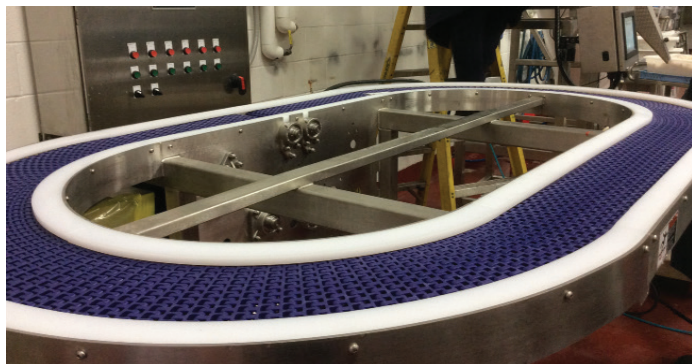
Redco™ Neptune™ X-Ray Detectable Acetal has excellent impact and wear resistance with low sliding properties. It has been proven to be detected in a particle as small as a 3mm cube on production lines running as fast as 250 feet-per-minute. It is FDA compliant and meets the federal requirements for food contact.

Redco™ Neptune™ X-Ray Detectable PEEK

Redco™ Neptune™ X-Ray Detectable PEEK is specifically designed for high temperature applications in the food processing industry. It is FDA compliant and meets the federal requirements for food contact.

In addition to outstanding mechanical properties, chemical resistance and thermal performance, Redco™ Neptune™ X-Ray Detectable PEEK can withstand long term continuous temperatures of 480°F as well as exposure to hot water or steam with low moisture absorption. This makes it the material of choice for high temperature applications in food processing.

Redco™ Neptune™ X-Ray Detectable PEEK has been proven to be detected in a particle as small as 3mm cube on production lines running as fast as 250 feet-per-minute.



Increase Production

Redco™ Neptune™ Slide

A high performance FDA compliant material (FDA/21CFR 177.1520) that has outstanding dry-running properties designed especially for applications in material handling and automation. Compared to conventional sliding materials, conveying systems equipped with Redco™ Neptune™ Slide needs considerably less energy and the installation eliminates the possibility of the “slip-stick” effect (backsliding) almost completely and thus increases process stability. The elimination of slip-stick (chatter and/or squeaking) provides an extraordinary amount of motion control for high-precision applications.

- ENERGY SAVING
- NOISE-REDUCING
- FOOD CONTACT COMPLIANCE
- COEFFICIENT OF FRICTION IS IMPROVED ESPECIALLY WHEN THE MATING SURFACE IS POM AND STEEL
- SUITABLE FOR CONTACT WITH FOOD

APPLICATIONS: CHAIN GUIDES, SLIDING STRIPS AND GUIDES, ROLLERS, SINGLE AND MULTIPLE CORNER WEAR BENDS, STRAIGHT GUIDES, ETC.

Redco™ Neptune™ High Speed

Redco™ Neptune™ High Speed is a sliding material especially for systems and machinery used in conveyors and automation. It was specially developed for systems to be operated at faster speeds and high loads, retaining its excellent sliding characteristics and high wear resistance, resulting in higher productivity. The material significantly improves system performance and efficiency with exceptionally good sliding properties and a very low temperature development which results in lower wear and a longer lifespan.

- REDUCED ENERGY CONSUMPTION
- LESS STRESS ON ALL PARTS OF THE CONVEYOR SYSTEM
- INCREASED PROCESS STABILITY
- LOWER NOISE EMISSION
- LONGER MAINTENANCE INTERVALS

APPLICATIONS: SLIDING AND CONVEYOR PARTS FOR CONVEYOR TECHNOLOGY, AUTOMATION PARTS, FOOD INDUSTRY PARTS, ETC.

About Us

Since 1971, Redwood Plastics and Rubber has worked directly with customers to find solutions for a variety of problems including: shock, abrasion, noise, wear & friction. We have extensive experience and large-scale manufacturing facilities to produce custom components for longer wear life, decreased downtime, increased production, lighter weight, cost effectiveness and increased safety.

Our Offerings

We supply plastic sheet, rod and tube as well as rubber sheet, rubber rollers and molded rubber in an assortment of standard and specialty grades. Redwood Plastics and Rubber has the manufacturing capabilities to mold, machine, and fabricate, a wide-range of high-quality parts in prototype and production volumes.

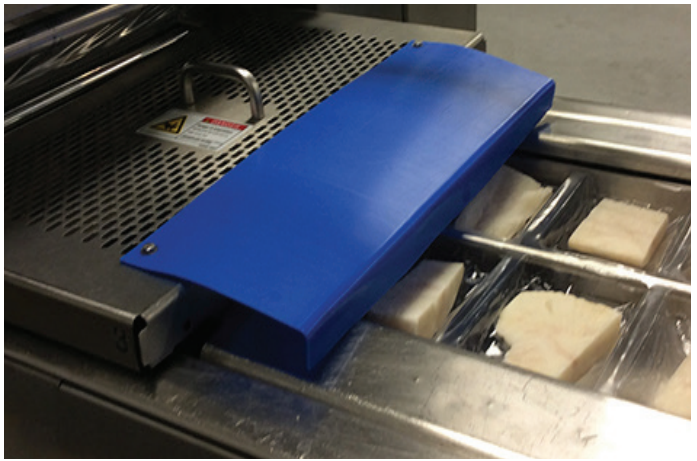
We distribute and manufacture: **UHMW, Acetal, Nylon, Sheet Rubber, Rubber Rollers, Polycarbonate, Acrylic, Polyurethane, PEEK, Tuffkast, PTFE, FRP Wall Panels, FRP Grating and many more!**

Commitment to Sustainability

Redwood Plastics and Rubber is also proud to offer environmentally sustainable performance plastics and rubber materials – defined as durable or multiple use plastics and rubber, offer unique opportunities to reduce, reuse, repurpose and recycle; minimizing overall environmental impact through many material applications over a broad and diverse marketplace.

With our technical expertise and experience, we continue to bring new, innovative developments and products to numerous industries and are committed to **100% customer satisfaction.**





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