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 is 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.
**Redco™ Neptune™ Polyurethane**

This special formulation of polyurethane is FDA and 3A Dairy Compliant with strength and durability far beyond the range of most rubbers and plastics. Neptune™ Polyurethane combines the toughness of metal with the elasticity of rubber and has the ability to withstand severe abuse which saves downtime, replacement costs and minimizes maintenance. Neptune™ Polyurethane is available in a broad range of hardnesses, from eraser soft to bowling ball hard.

- UNLIMITED CUSTOM MOLDED SHAPES
- OUTSTANDING ABRASION RESISTANCE
- HIGH LOAD BEARING CAPABILITY
- EXCEPTIONAL IMPACT STRENGTH
- HIGH FLEXURAL PROPERTIES
- OIL & SOLVENT RESISTANT
- RESISTANT TO COLD
- HEAT & UV STABILIZED

**Redco™ Neptune™ Food Grade Silicone, Nitrile & EPDM**

Redco™ Neptune™ Rubber (Silicone, EPDM and Nitrile) are FDA/3A compliant materials available in white or blue colored sheet. Redco™ Neptune™ Rubber in blue is used extensively in food and beverage processes because it is easily identified resulting in a cost-effective way to increase safety and decrease costly contamination problems.

HARDNESS: SHORE 60A

AVAILABLE THICKNESSES: 1/16”, 1/8”, 3/16”, ¼”, 3/8” AND ½”

SHEET SIZE: 48” WIDE X 50’ LONG

APPLICATIONS: ROLLERS, SKIRTING, SEALS, SPRAY APRONS, SEALS, GASKETS, ETC.
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.

**AVAILABLE AS RODS, SHEETS, STANDARD OR CUSTOM PROFILES & FINISHED PARTS**
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.
Reduce Energy Consumption

Redco™ Neptune™ Slide

A high performance material 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
- ESPECIALLY AlIGNED TO POM AND STEEL
- SUITABLE FOR CONTACT WITH FOOD (FDA/21CFR 177.1520)

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

AVAILABLE AS RODS, SHEETS, STANDARD OR CUSTOM PROFILES & FINISHED PARTS
Increase Production

Redco™ Neptune™ High Speed

Redco™ Neptune™ High Speed is a sliding material especially for systems and machinery used in conveyor technology and automation. It was specially developed for systems to be operated at higher speeds and pressure loads which results in higher productivity in your facility.

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.

Even when used for high-load applications, it retains its excellent sliding characteristics and high wear resistance.

- 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.

AVAILABLE AS RODS, SHEETS & STANDARD OR CUSTOM PROFILES & FINISHED PARTS