

# Rulon<sup>®</sup> 1439 and the USP Connection in Medical Plastics

■ A partnership with TriStar gives you a competitive edge.



Rulon 1439 Bearings

*Quality control is critical in every manufacturing sector, but it takes on a new level of urgency in medical and pharma. USP-compliant Rulon 1439 has surpassed every other polymer to excel in a high-velocity mixing application.*

*Our partner designs mixing tanks and other equipment used to blend the raw ingredients of pharmaceuticals. They described a problem securing their polymer steady bearings to the mixing tanks.*

*Over time, the combination of mixing dry abrasives and boiling liquids caused the polymer bearings to corrode. As the bearings corroded, the mixing blades could not produce uniform, batch-to-batch drug blending.*

## A steady bearing for superior blending

After a review of the application, we sourced USP-compliant Rulon 1439, because it could endure:

- Abrasive chemical compounds
- High-velocity mixing speeds
- Prolong periods of submersion
- Sanitizing wash down chemicals
- Shaft deflection and mixing vibration

[Rulon 1439](#) provides longer wear than most PTFE compounds with grease-free service, Rulon 1439 mixing bearings gave our client a secure bearing fit and cleaner manufacturing.

## Why is USP compliance important in this mixing application?

USP gives assurance of product quality verification for consumers and as well as other manufacturers. It also indicates that GMP have been followed. Rulon 1439 [along with [Rulon 641](#)] are both USP and FDA compliant medical plastics.

TriStar Plastics is the official distributor of Rulon in North America

We're ready to put our engineering expertise to work for you from prototype to production.

Engineering | Custom Fabrication | Manufacturing



## CJ Composite

- Self-Lubricating
- Low weight | High Strength
- Chemical Resistance
- Direct replacement for Bronze



## Ultracomp<sup>®</sup>

- Self-Lubricating
- High Load | Low Speed
- 54,400 PSI Compressive Strength
- Exceptional Resistance to Vibration and Impact



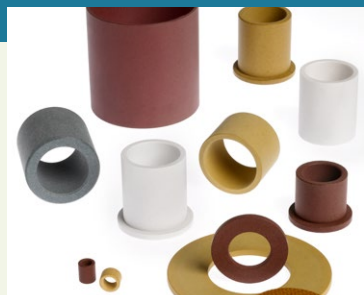
## TriSteel<sup>™</sup>

- Self-Lubricating
- High Load | High Speed
- Metal Backed Bearing System
- 100% Lead Free



## Rulon<sup>®</sup>

- Self-Lubricating
- Low weight | High Strength
- Low Coefficient of Friction
- Chemically Resistant



## Enhanced Materials Division

- Plasma Surface Treatment
- Specialized Primers & Coatings
- Material ID & Selection
- Process Engineering | Analysis & Testing



**TriStar**



Engineered Plastic Solutions<sup>™</sup>

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