

Volume 3 Issue 7

Product Highlight

Ultracomp® UC200 Gets Put to the Test

TriStar Plastics Corp. has been a major supplier to the railway industry for many years. In an extreme application, the maintenance manager of Pikes Peak Cog Railway in Colorado decided to put Ultracomp® UC200 to the test. TriStar supplied several configurations of sleeve and thrust bearings to be installed within the brake caliper system. After a rigorous, two year test on this unique railway system, which included exposure to roadway ballast, snow, ice, and rain during several hundred expeditions up and down Pikes Peak, the results were stellar! Removal of the parts showed virtually no wear of the bearings, and the shafts looked almost new.



Ultracomp® is used in sleeve, flange, thrust and sliding applications in areas such as couplers, emergency hand brakes, draft gears, brake caliper systems, shock absorbers and interior components throughout the rail cars. Used on both transit and freight cars, Ultracomp® exceeds the extensive test requirements of the AAR, and must perform for the equivalent of 1,000,000 miles of track time. Ultracomp® has passed both of these requirements in many different applications.

[Visit Pikes Peak Cog Railway](#)

Ultracomp® excels in linear, oscillating, and rotary applications that require high load and low speed. It is available in tube, sheet stock, or can be fabricated into custom bearings to your specifications.

- **UC200 – Bearing Grade Polyester/Graphite Composite**
Designed for high load, high impact, slow speed, and vibratory applications. UC200 has excellent abrasion resistance, does not require lubrication, and has extremely low moisture absorption. Runs best on shafts with RC30 or higher.
- **UC300 – Bearing Grade Polyester/PTFE Composite**
Similar in construction to UC200, PTFE lubricant added to resin matrix for rotary or linear applications to reduce its coefficient of friction. Runs well against stainless and aluminum.
- **UC400 – Bearing Grade Polyester/MoS₂ Composite**
Similar in construction to UC200 with moly lubricant for slow rotary, salt water, and dry oscillatory applications.
- **UC500 – Bearing Grade Blended Fiber/Graphite Composite**
Unique interwoven laminate using PTFE, polyester fibers, and graphite lubricant. Excellent material for full rotary applications where self-lubricated low friction and long wear is required.



Ask the Experts!

Click here to submit your questions directly to our Technical Director.

For more information about Ultracomp® and other products available from TriStar Plastics Corp., call us at 1-800-TRISTAR or visit our website at tstar.com

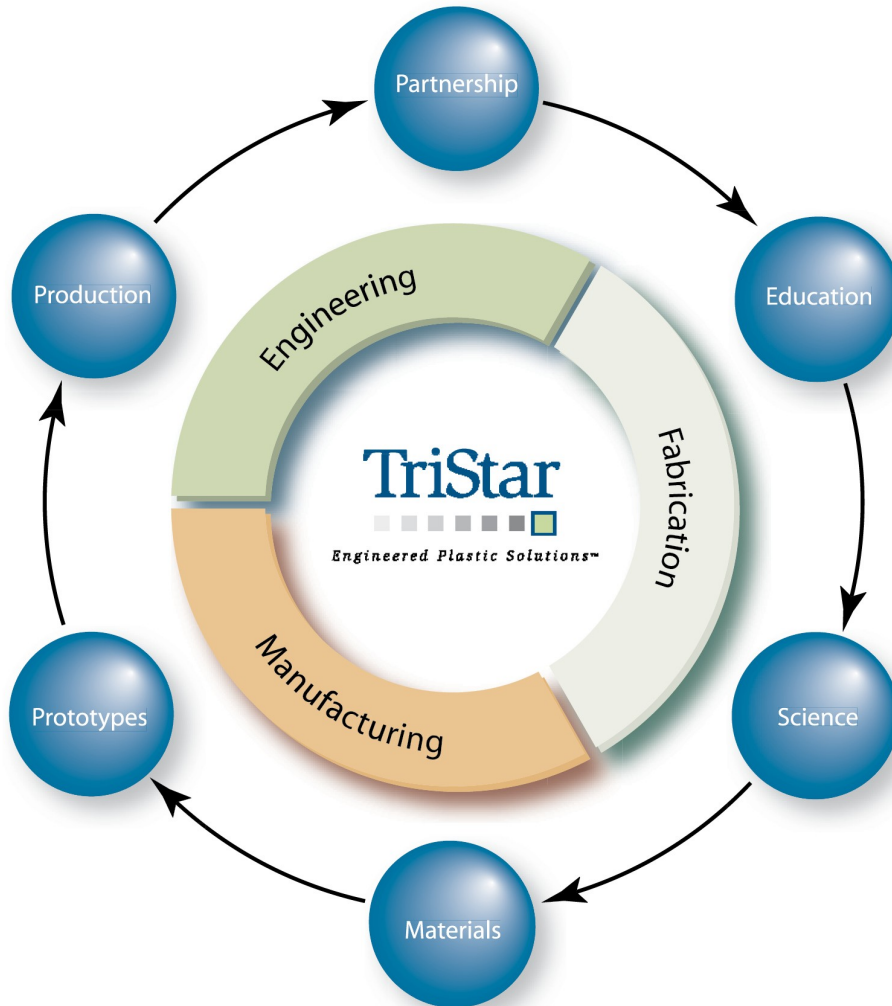
We've created "[The TriStar Advantage](#)" with you in mind.

The
Advantage
is Clear

Our business has been designed by you.

Established in 1982, TriStar Plastics Corp. provides engineering, custom fabrication and manufacturing of high-performance polymers, composites and self-lubricating bearing materials.

With engineering and sales offices coast to coast we stand ready to serve you.



TriStar
Engineered Plastic Solutions™

Engineered Plastic Solutions™

Over 50 Industries Served

Since 1982 TriStar has been the in-house engineering resource providing engineering, design assistance, prototyping, custom fabrication, and manufacturing in over 50 industries including:

- Agriculture
- Construction
- Food
- Marine
- Medical
- Railroad