

# P3 High Performance Plastics

High performance plastics are being used to replace alloy components as pump bodies, internal parts for pumps, and gears. High performance polymer machining and high performance polymer molding provide specific solutions for even the toughest applications. All materials are certified and tested in our in-house laboratory in accordance to most ASTM plastic specifications.



## FEATURES & BENEFITS

- High performance plastic lantern rings meet any size requirement or application
- Custom split and pinned bushings available in thermoplastics or compounded PTFE
- Spring energized seals and lip seals also available
- Polymers stand up to high temperatures and extreme environments
- Polymer parts are long lasting and reliable

# P3 High Performance Plastics



## PTFE MOLDED PRODUCTS

### Virgin PTFE and PTFE blended compounds

Glass Filled, Carbon Filled, Graphite Filled, Bronze Filled, and Stainless Filled

### Standard Compound Offerings for Molded Billets, Tubes, and Rods

- Virgin PTFE
- 15% Glass
- 25% Glass
- 40% Glass
- 15% Glass / 5% Moly
- 23% Carbon / 2% Graphite
- 30% Carbon / 3% Graphite
- 25% Carbon
- 15% Graphite
- 40% Bronze
- 60% Bronze
- 55% Bronze / 5% Moly
- 50% Stainless

## PPS AND PEEK MOLDED PRODUCTS

### Molded Billets, Tubes, and Rods

Includes all industry standard bearing grade PPS and PEEK

Materials: Glass Filled PPS and PEEK, Carbon Fiber Filled PPS and PEEK, and many other filled PPS and PEEK materials.

## CUSTOM COMPOUND SERVICES

In addition to the above list, we offer custom compounding services to meet specific applications or specifications as well as molded product from custom or non-standard blends.

These include fillers such as:

- Polyimide
- Ceramic
- Barium Sulfate
- Boron Nitride
- Calcium Fluoride
- Aromatic Polyester
- Carbon Fiber
- Spherical Glass
- Nickel
- many more

## PTFE MACHINED PRODUCTS

### Virgin PTFE and PTFE blended compounds

Glass Filled, Carbon Filled, Graphite Filled, Bronze Filled, and Stainless Filled

**Valve Seats** — ball valve seats and full repair kits

**V-Packing** — packing sets in all traditional styles and materials with plastic and alloy tops and bottoms

**Energized Seals** — Spring energized seals with all types of spring configurations

**Envelopes** — Envelope gaskets of all styles and a variety of fillers

**Lantern Rings** — standard and custom lantern ring manufacturing

**Bushings and Spacers** — custom bushings and spacer manufacturing, including food grade

**Back-Up Rings** — flat and contoured back-up rings both complete and split

And Much More!

## PPS AND PEEK MACHINED PRODUCTS

**Back-Up Rings** — flat and contoured back-up rings both complete and split

**Energized Seals** — Spring energized seals with all types of spring configurations

**Bushings and Spacers** — custom bushings and spacer manufacturing, including food grade

**Lantern Rings** — standard and custom lantern ring manufacturing

## CUSTOM MACHINING SERVICES

In addition to the above list, we offer custom machining services to meet any requirement. We have the ability to reverse engineer any part or material from a sample or print as well as offer a specific sealing solution for even the toughest applications.

\*All materials are certified and tested in our in-house laboratory in accordance to all ASTM plastic specifications.