

Polyacetal rods

ARK IMPEX is a manufacture of Polyacetal Rods also known as POM or Delrin Rods in a specialised small diameter sizes 6/8/10/12/13/16 and 20 mm in all required color. We manufacture POM rods in varies length starting from 300 mm up to 4000 mm as per order. Colour(s) are no barriers.

Acetal resins (polyoxymethylene or POM) are engineering thermoplastics based on formaldehyde polymerization technology. These highly crystalline resins are strong, rigid and have a low coefficient of friction against metals, acetals and other plastics. They are creep resistant so they are good for parts where dimensional stability is important. Acetal resins have high tensile strength, stiffness, resilience, fatigue endurance and moderate toughness. Acetals have high resistance to organic solvents, excellent dimensional stability, a low coefficient of friction and outstanding abrasion resistance among thermoplastics.

Acetals' resistance to creep is excellent. Moisture, lubricants and solvents including gasoline and gasohol have little effect on this property, which is important in parts incorporating self-threading screws or interference fits.

Good electrical properties qualify these materials for electrical applications requiring long-term stability. Acetal copolymers retain much of their toughness through a broad temperature range and are among the most creep resistant of the crystalline thermoplastics. A low moisture absorption characteristic permits molded parts to serve reliably in environments involving humidity variations.

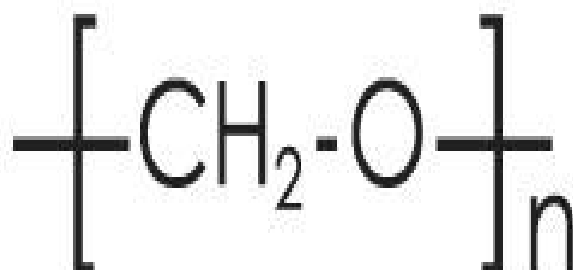
Polyacetal (Delrin) square and round rods:

Size: 6 mm to 20 mm

Color: natural/ black / custom color

Length: 300 mm / 1000 mm / 1220 mm / 4000 mm (as per requirement)

Molecular Structure of Polyacetal



Characteristics of Polyacetal rods

- ✓ Excellent dimensional stability
- ✓ Continuous use temperature of 180°F
- ✓ Porosity free
- ✓ Consistent properties in wet or moist environments
- ✓ Very low moisture absorption
- ✓ Excellent electrical properties
- ✓ Easy to machine to close tolerances
- ✓ Natural and Black are FDA & USDA compliant

APPLICATIONS

- ✓ Bushings and bearings
- ✓ Rollers and gears
- ✓ Valves and manifolds
- ✓ Scraper blades
- ✓ Wear strips and pads
- ✓ Jigs and fixtures
- ✓ Electrical components
- ✓ Parts which operate in water between 60 to 90C

