## Acetal Properties

### Delrin® Homopolymer
- Tensile Strength – 11,100 psi
- Tensile Modulus – 450,000 psi
- Flexural Strength – 11,500 psi
- Flexural Modulus – 420,000 psi
- Elongation – 25%
- Impact Strength – 1.5 ft-lbs/in
- **Kilocycles to failure – 20,000***
- **Creep resistance @ 1000hrs – 1.25% strain**
- Inherent centerline porosity
- ASTM D6100-11 / S-POM0111

### Copolymer
- Tensile Strength – 8,800 psi
- Tensile Modulus – 380,000 psi
- Flexural Strength – 11,000 psi
- Flexural Modulus – 360,000 psi
- Elongation – 25%
- Impact Strength – 1 ft-lbs/in
- **Kilocycles to failure – 15***
- **Creep resistance @ 1000hrs – 1.75% strain**
- No inherent centerline porosity
- ASTM D6100-11 / S-POM0211

*Beware: A copolymer Acetal is not the same as a Delrin® homopolymer Acetal!*

*At 4750 psi – ASTM D671 Flex
**Data supplied by DuPont*
Advantages of Delrin® Homopolymer Acetal

- Superior physical properties compared to Copolymer Acetal.
- Higher crystallinity.
- Better fatigue endurance.
- Better creep resistance.
- Better impact resistance, especially at low temperatures.
- Domestic production provides consistent resin from batch to batch, shape to shape and part to part.