

Semi-Finished Products made from Acetal (Delrin[®])



Acetal (Delrin®)

Acetal is a highly wear resistant plastic with a naturally slippery surface. Also known as Delrin® and Acetal homopolymer, it resists moisture and has the ability to hold tight tolerances when machined into parts.

The most outstanding properties are:

- High strength plastic
- Good lubricity and dimensional stability
- High wear resistance
- Does not absorb moisture

Acetal can be used in a temperature range from -20°F to $+180^{\circ}\text{F}$.

TYPICAL PROPERTIES

Color: White

Temperature Range: -20°F to $+180^{\circ}\text{F}$

Tensile Strength: 9,000 psi

Impact Strength: 1.000 ft-lbs./in.

Specifications Met: ASTM D6100, DSF/ANSI Standard 51 for Food Contact, NSF/ANSI Standard 61 for Drinking Water

Recommended for Outdoor Use: No

TYPICAL APPLICATIONS

Acetal is an engineered plastic used in precision parts requiring high dimensional stability, high rigidity, stiffness and low friction. It is a great alternative to Nylon when the product will be exposed to moisture because Acetal does not absorb moisture. Because of its superior mechanical properties, it's often used in applications where plastics save weight over metal parts, but offer similar strength characteristics.

Often used to make gears, bushings and bearings.

Applications for machined parts include: packaging equipment, drive components, and bearing applications requiring lighter weight parts.

FORMS AVAILABLE

Sheet: 1/4" to 1" thick

Rod: 1/4" to 2" diameter