

# Acetal

POM, Polyoxymethylene, Delrin®  
Polyacetal, Polyformaldehyde

## OVERVIEW

Acetal is a mechanical thermoplastic with high strength and stiffness coupled with enhanced dimensional stability and ease of machining. As a semi-crystalline material, acetal is also characterized by a low coefficient of friction and good wear properties even in low temperate environments. Copolymer acetal and homopolymer Delrin® are FDA and 3A-Dairy approved.

## TECHNICAL DATA

PROPERTY	COPOLYMER ACETAL	DELIN®
Density (lbs/in.3   lbs/ft.3)	0.05   86.4	0.05   86.4
Modulus of Elasticity (psi)	380,000	420,000
Yield Tensile Strength (psi)	8800	11000
Break Tensile Strength (psi)	9700	—
Elongation at Yield	9%	—
Elongation at Break	25%	25%l
Izod Impact Strength (ft-lbs/in.)	1.00	1.50
Hardness, Rockwell	M86	M94/R120
Deflection Temperature @ 66psi	316° F	336° F
Continuous Service Temperature	195° F	185° F
Moisture Absorption @ Saturation	0.80%	0.09%
Affixable Properties	Chem / Mech	Chem / Mech

## APPLICATIONS & USES

- Gears, chains, screws, nuts, springs, locks
- Telephones
- Sliding and guiding elements
- Housing parts, pump parts, vehicle tanks
- Valve bodies
- Insulators, bobbins and connectors
- Parts for electronic devices, televisions
- Fuel sender units
- Door lock systems and locks
- Insulin pens, metered dose inhalers (MDI)
- Kitchen appliances
- Consumer hardware
- Knife and tool handles
- Zippers, picks