

Jade Engineered Plastics

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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

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

PROPERTY	COPOLYMER ACETAL	DELRIN®
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%
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

The data provided gives the typical properties of the material. These are "typical" properties only, and should not be used for specification purposes. This information is based on our experience to date and we believe it to be reliable. It is intended to be used only as a guide at your discretion and risk. Jade cannot guarantee favorable results and assumes no liability in connection with the use of this product. None of this information is to be taken as a license to operate under, or recommendation to infringe, any patents.