

# **ACETAL** engineering materials...

.....for how we live, work, and play.

*ENSINGER/PennFibre is the global leader in the production of thin gauge acetal materials in both homopolymer and copolymer formulations.*

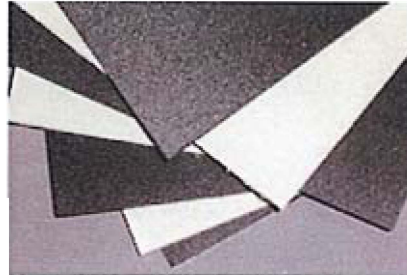
*ACETAL is a crystalline engineering material with a unique set of properties that makes it an ideal choice for a wide variety of applications. Acetals exhibit high strength to weight ratios combined with high strength, stiffness, and impact resistance. Acetals offer exacting dimensional stability and low creep under load for extended periods.*

*Acetals offer chemical resistance to solvents, hydrocarbons, and all under hood fluids making it a prime consideration for automotive applications. Acetals exhibit a very low moisture vapor transmission rate making it a popular choice for marine applications. Acetals offer extended scratch resistance and low coefficient of friction properties making it a favorite material choice for bearing and wear applications.*

*Acetals are available in a wide variety of engineered formulations including internally lubricated, glass reinforced, impact modified, FDA and USP VI approved, and ESD modified.*

*Call ENSINGER/PennFibre today for all of your thin gauge acetal requirements.*

*ENSINGER/PennFibre offers acetal products from 0.010in to 0.250in thick in standard and custom lengths up to 50 inches in width. Fabric backings and laminates are available as options.*



**SHEETS**



**COILS  
ROLLS**



**STRIPS**



**PUNCHED  
PARTS**

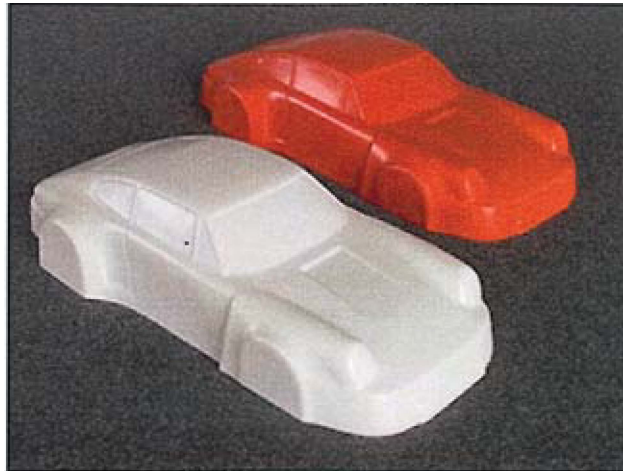
**ENSINGER/PennFibre**   
ASK. THINK. SUCCEED.

PENN FIBRE PLASTICS INC. SINCE 1937

**~ Homopolymer vs. Copolymer ~**

*Acetal (POM) exists as a homopolymer and as a copolymer.*

*The homopolymer has slightly higher short term mechanical properties and melts at a higher temperature. The copolymer has higher continuous use temperature, greater alkali resistance and is less affected by long term exposure to moisture at elevated temperatures.*



**Delrin® Homopolymers**

Delrin® Acetals resins (homopolymers) are manufactured exclusively by DuPont Engineering Polymers.

ENSINGER/PennFibre offers Delrin acetals in the following grades:

Delrin® 150 ~ general purpose extrusion grade for fabrication and stock shapes.

Delrin® AF ~ modified with an internal lubricant (PTFE)

Delrin® FS ~ ENSINGER/PennFibre exclusive development for thermoforming applications.

**Acetal Copolymers**

ENSINGER/PennFibre is pleased to offer the widest range of copolymer acetal products in the industry. All of our copolymer acetals are made from virgin materials supplied by the world's leading resin manufacturers

General purpose grades are available for fabrication and stock shapes applications.

Specialty grades include FDA/USP Class VI, high molecular weight formulas, high friction and bearing grades, custom colors, varying levels of glass reinforcement and/or impact modifiers, and thermoformable grades.



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