



# MAINTENANCE ACCESSORIES

## UHMW PLASTICS

### Ultra-High Molecular Weight

UHMW is an ultra-high molecular weight thermoplastic material with outstanding properties that are directly attributed to its peculiar molecular structure.

This polymer has a molecular weight (Mw) of approximately 5,000,000; it contains very long, nearly branch free molecules and exhibits unique shock and abrasion resistance.

### Self-Lubricating

Its low coefficient of friction and high slip properties make UHMW an exceptional bearing material. It is self-lubricating and very desirable in areas where metal-to-metal friction causes significant wear, and where heavy loads at slow speeds cause oil to be squeezed from conventional bearing surfaces.

### Abrasion Resistant

UHMW's resistance to abrasion makes it a most effective maintenance aid. In sliding applica-

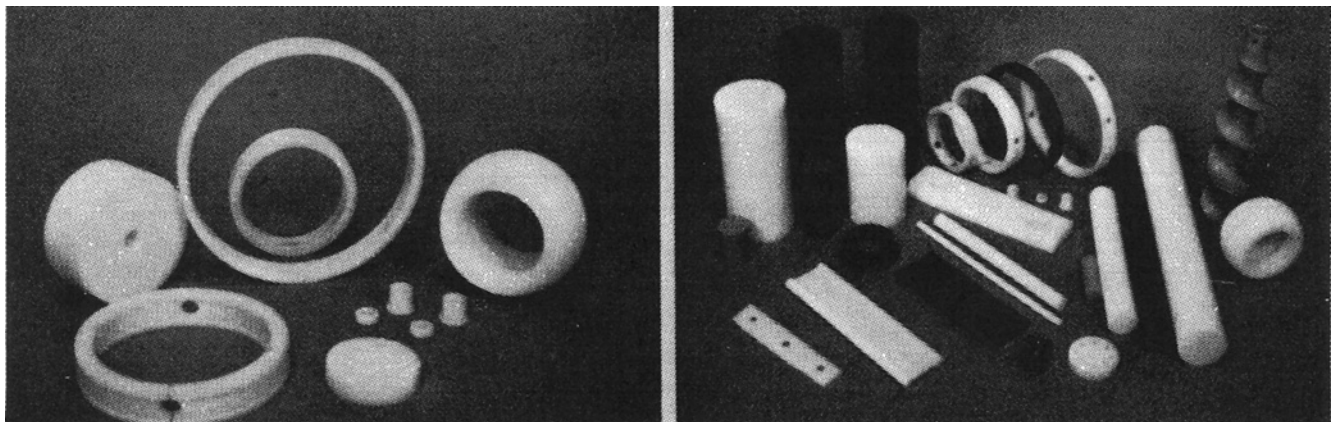
tions it is likely to out-perform steel 20 to 1. In one highly abrasive pneumatic conveyor, it out-performed expensive high abrasive resistant steel 4 to 1.

### Impact Resistant

The Izod impact strength of UHMW is greater than 32 foot-pounds per inch on a modified double-notched specimen. This makes it ideal for use in the textile industry for fabrication into loom accessories. Impact and abrasion resistance improve as molecular weight increases, and UHMW is converted from resins of the highest molecular weight polyethylene available.

### Chemical Resistant

UHMW offers outstanding resistance to a broad range of corrosive chemicals and reagents. There are many unusual examples of applications in chemical processing equipment.



### Available in convenient forms:

Tubing • Strip Stock • Rod • Pipe • Extrusions  
Molded Shapes • Sheet • Machined