



**MIDLAND
PLASTICS**

PARTNERS | INNOVATORS | LEADERS



iapd
international association
of plastics distribution



FOOD & BEVERAGE

Performance plastic materials are used in a variety of food processing and packaging machinery applications including friction and wear parts. Plastic tubing/piping is to handle fluids. Plastic sheet materials are used for safe, easy-to-clean cutting boards.

APPLICATIONS

- Bushings, bearings, cams
- Conveyor parts
- Feed screws
- Guide rails
- Machine guards, windows
- Pipes and tubes for fluid processing
- Pistons/plungers
- Rollers
- Seals, seats, gaskets
- Gears, sprockets
- Star wheels
- Thermoformed machine housings
- Wear strips
- Forming dies
- Scraper blades
- Cams and cam guides
- Nozzles/dispensing heads

ADVANTAGES MAY INCLUDE

- Lightweight for high-speed production using smaller drive motors
- Reduced maintenance and reduced contamination by eliminating lubrication
- Resistance to clean-in-place (CIP) and sanitize-in-place (SIP) cleaning chemicals
- Resistant to hot water and steam
- Long wear life
- Limited wear on food packaging and/or mating machine parts
- Transparency for easy viewing of machine during operations
- Grades are available that comply with FDA, NSF, 3A dairy and other federal agency regulations

MATERIALS

- Acetal (POM)
- Acrylic (PMMA)
- High-Density Polyethylene (HDPE)
- Nylon (PA)
- Polycarbonate (PC)
- Polyethyleneterephthalate (PET)
- Polyetheretherketone (PEEK)
- Polyetherimide (PEI)
- Polyamide-Imide (PAI)
- Polypropylene (PP)
- Polyvinyl Chloride (PVC) – rigid and flexible
- Polytetrafluoroethylene (PTFE)
- Ultra High Molecular Weight Polyethylene (UHMW-PE)
- Visual and Metal detectable materials available



DID YOU KNOW?

PTFE, one of the first plastics used in food processing, was discovered by accident. DuPont engineers were experimenting with TFE as a new refrigerant, but when the gas was stored in cylinders it polymerized into PTFE resin.