



# Plastics in Food & Beverage



Plastic materials are used in a variety of food processing and packaging machinery applications including friction and wear parts, plastic tubing to handle fluids, and various plastic sheet materials for conveyor guide rails as well as safe, easy-to-clean cutting boards and food preparation surfaces.

## Environmental and Safety

Considering the total carbon footprint, including costs of raw materials, manufacture, transport, fabricate, install and maintain, plastics compare favorably with more traditional materials. Also, plastics are safer to handle and install. When you consider that most plastics are readily recyclable, they can become the most environmentally responsible and safest choice for many demanding food and beverage applications.

## Materials

- Acetal (POM)
- Acrylic (PMMA)
- HDPE
- Nylon (PA)
- Polycarbonate
- PET
- Polypropylene
- PTFE
- HDPE
- Nylon (PA)
- PVC
- Neoprene Tubing
- UHMW
- Urethane Tubing
- Metal/X-Ray Detectable

## Applications

- Bushing/Bearing
- Cams and Cam Guides
- Conveyor Parts
- Feed Screws
- Fluid Transfer System
- Forming Dies
- Gears/Sprockets
- Guide Rails
- Machine Guards
- Prep Surfaces
- Rollers
- Scraper Blades
- Seals and Gaskets
- Star Wheels
- Wear Strips

## Advantages

- FDA, NSF, USDA, 3A Dairy and other regulatory compliant materials available
- Lightweight for high speed production
- Reduced maintenance and contamination
- Long wear life
- Transparency of machinery during processes
- Resistant to heat
- Resistant to clean-in-place (CIP) & sanitize-in-place cleaning chemicals

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