



WATER/WASTEWATER

Performance plastics have been instrumental in reclaiming wastewater into safe water for more than seven decades. Plastics are also being put to work anywhere there's a need for durable, long-lasting, maintenance-free water transport systems.

APPLICATIONS

- Potable water systems (valve and pump components)
- Irrigation systems (bearings, nozzles, pivot bushings)
- Aquaculture
- Specialized chemical delivery systems
- Reclamation process piping
- Sprinkler/water aeration systems
- Hot and cold water distribution systems
- Plumbing pipes and fittings
- Double contained piping systems
- Water and sewage treatment — paddles, weirs, wear shoes, sprockets, chain guides
- Gravity and force main industrial and municipal sewer systems
- Ultra-pure water systems
- Submerged marine installations
- Ocean thermal energy conversion projects, designed to produce energy and air condition buildings
- Desalinization
- Grating and stair systems

ADVANTAGES MAY INCLUDE

- Lightweight
- Impact resistant
- Weather resistant
- Chemical and corrosion resistant
- Easy to fabricate
- Excellent weatherability
- Quieter than metal pipes (no “water hammer”)
- Easy and safer to install
- Low maintenance
- Easy to weld, install and operate
- Excellent flexibility and bending radius (which eliminates the need for custom fittings)
- Surge-resistant
- Provides superior protection for public health when used in water treatment applications
- Fabrication can be done on-site with simple hand tools; no torches or heavy equipment needed
- Energy savings with dynamic systems (a result of plastics, lighter weight and lower specific gravity)

MATERIALS

- Acetal (POM)
- Acrylonitrile-Butadiene-Styrene (ABS)
- Cast Nylon (PA)
- Chlorinated Polyvinyl Chloride (CPVC)
- Ethylene-Chlorotrifluoroethylene (ECTFE)
- Ethylene-Vinyl Acetate (EVA)
- High-Density Polyethylene (HDPE)
- Low-Density Polyethylene (LDPE)
- Polymethyl Pentene (PMP)
- Polypropylene (PP)
- Polyvinyl Chloride (PVC)
- PVC/Acrylic Alloy
- Polyvinylidene Fluoride (PVDF)
- Thermoplastic Elastomer (TPE)
- Ultra-High Molecular Weight Polyethylene (UHMW-PE)



DID YOU KNOW?

On average, the water footprint of an American is 32,968 glasses a day, or 752,097 gallons per year. Of that amount, 96 percent is used to grow food, make clothing and generate energy.