

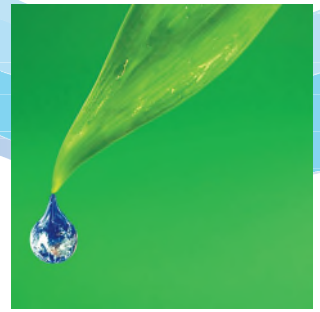


# Environmental

Not only do plastics have a low overall lifecycle carbon footprint, including being recyclable, they are used directly in applications that help preserve and restore the world in which we live.

## Applications

- Waste water system components
- Drinking water and sewage system flow control components
- Desalination plant system components
- Pollution control scrubbing and piping components
- Landfill vent pipes
- Compost containers
- Trash truck components
- Construction, heavy equipment and transportation “lube free” wear components
- Incineration and storage conveyor components
- Clean water well exploration and production components
- Solar energy system components
- Biofuel cultivation, harvesting and processing components
- Fuel cell manifolds



- Resistant to abrasion, bacteria and fungi
- Less frequent maintenance and replacement
- Less costly to transport and install
- Water conservation via fewer water main breaks
- High aesthetic appeal

## Did you know?

In just one year, one IAPD member company’s environmental savings were the equivalent of the annual greenhouse emissions of nearly 500 passenger cars.

## Advantages May Include

- Strength
- Toughness
- Chemical, moisture and heat resistant
- Ease of processing and forming
- Ease of sealing
- Lighter and less expensive to manufacture than metal
- Transmits over 90 percent of light, yet is resistant to UV
- Weather resistant
- Recyclable
- Immune to electrolytic and galvanic corrosion, scaling, rusting and pitting

## Materials

- Bioplastics
- Cast Nylon (PA)
- Chlorinated Polyvinyl Chloride (CPVC)
- High-Density Polyethylene (HDPE)
- Low-Density Polyethylene (LDPE)
- Polybutylene Terephthalate (PBT)
- Polycarbonate (PC)
- Polyethylene Terephthalate (PET, PETE)
- Polypropylene (PP)
- Polystyrene (PS)
- Polyvinyl Chloride (PVC)
- Polyetherimide (PEI)
- Polyethylene terephthalate (PET)
- Plastic grates and walkways



## Environmental and Safety

Considering the total carbon footprint, including costs of raw materials, manufacture, transport, fabricate, install, 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 environmental applications.



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