# ALTERNATIVE ENERGY

Performance plastics play an important role in the production of solar, wind, wave, biofuels, geothermal and hydrogen equipment components.

## APPLICATIONS

- Films for solar collectors
- Solar array pivot bearings
- Thrust washers
- Electrical insulators
- Housings/shrouds
- Rotational bearings, bushings
- Equipment braces
- Storage tanks
- Pipe, valves, fittings
- Standoff heat insulators
- Tubing

## ADVANTAGES MAY INCLUDE

- Lightweight for more efficient operations
- Ease of fabrication
- Easy to install/replace
- Recyclable
- Corrosion and chemical resistant
- Abrasion resistant
- Impact and fatigue resistant
- Stiffness
- Excellent bearing and wear performance
- Low moisture absorption
- Weatherability
- Low creep
- Low warpage
- Solid color, eliminating painting

## MATERIALS

- Acetal (POM)
- Acrylonitrile-Butadiene-Styrene (ABS)
- ABS/Polycarbonate
- Long Fiber Reinforced Thermoplastics (LFRT)
- Nylon (PA)
- Polyamideimide (PAI)
- Polybutylene (PBT)
- Polycarbonate (PC)
- Polyetheretherketone (PEEK)
- Polyethylene (PE)
- Polyethylene Terephthalate (PET)
- Polyphenylene Oxide (PPO)
- Polypropylene (PP)
- Polyurethane (PUR)

**DID YOU KNOW?**

Wood, the most renewable and available alternative energy source, emits roughly the same amount of carbon when burned as it would if it decayed naturally.

6734 West 121st Street I Overland Park, KS 66209 I +913.345.1005 I www.iapd.org I iapd@iapd.org