



ALTERNATIVE ENERGY

PLASTIC AND RUBBER APPLICATIONS

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

ADVANTAGES

-  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

DID YOU KNOW?

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

TYPICAL 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

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)

Manufacturing & Fabrication Services

Redwood Plastics and Rubber is dedicated to the specialized requirements necessary to turn stock plastics, rubber and composites into precision mechanical components of the utmost quality.

We can design, machine, mill, weld, route, and drill to produce prototypes, short runs, production runs or maintenance parts.

Save time and money by utilizing our experienced fabricators and plastic and rubber specialists.

