REDWOOD PLASTICS AND RUBBER

HEAVY EQUIPMENT

PLASTIC AND RUBBER APPLICATIONS

Despite the extremely heavy loads and challenging work environments of most heavy equipment, plastics offer performance superior to many traditional materials in vital applications.

ADVANTAGES

- Lightweight
- Corrosion resistant
- Low friction
- High wear resistant
- High impact resistant
- No external lubrication required
- Reduced wear on mating parts
- Ease of installation and assembly
- Low conductivity, thermally and electrically
- High strength
- Dimensional stability
- Wide service temperature range
- Reduced maintenance cost

DID YOU KNOW?

Groundwater is the primary source for more than 80 percent of the community drinking water systems in the United States (US EPA 1994). The use of self-lubricating engineering plastic wear parts can reduce or eliminate lubricant “wash-out” in heavy equipment bearing applications, greatly reducing non-point source pollution which seeps into the groundwater. One gallon of refined oil products can contaminate 100,000 gallons of groundwater.

TYPICAL APPLICATIONS

- Bushings and bearings
- Wear pads
- Sheaves
- Guides for electrical and hydraulic lines
- Rollers
- Liners
- Chutes
- Seals
- Outrigger pads
- Slide bars/cam actuators
- Cushion pads (pile-driving equipment)
- Guards and fenders
- Glazing (windows)
- Grating

MATERIALS:

- Acrylic (PMMA)
- Fiberglass Reinforced Polymers (FRP)
- High-Density Polyethylene (HDPE)
- Nylon (PA)
- Polycarbonate (PC)
- Polyethylenterepthalate (PET)
- Ultra-High Molecular Weight Polyethylene (UHMW-PE)

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.

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