











TRANSPORTATION

PLASTIC AND RUBBER APPLICATIONS

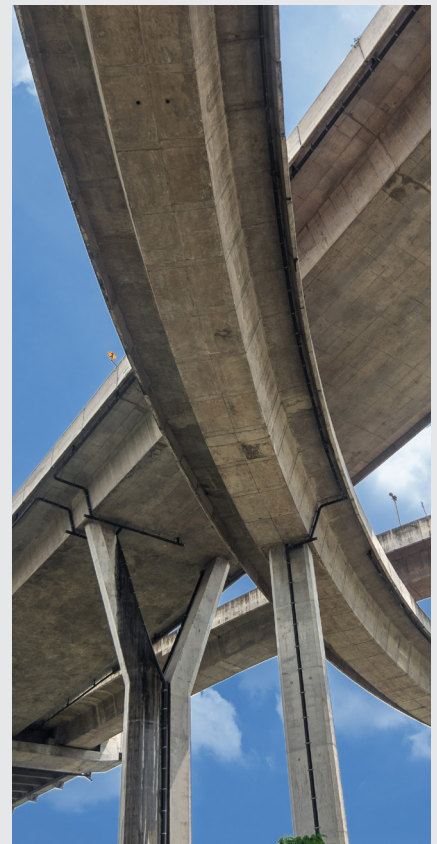
Trains, buses, trucks, boats and RVs are lighter weight, more durable, safer and more comfortable thanks to plastics. In both aesthetic and structural / bearing applications, plastics help you travel further for less money.

ADVANTAGES

-  Lightweight, resulting in better fuel efficiency
-  Impact, weather, chemical, corrosion and fire resistant
-  Easy to fabricate
-  Reduced maintenance and downtime
-  Sound dampening
-  Low friction
-  Design flexibility, offered in a variety of colors and decorative caps
-  Easily manipulated into complex fabricated or thermoformed parts

DID YOU KNOW?

Polycarbonate and acrylic glazing weighs half that of glass of the same thickness and can offer up to 30 times the impact strength. Plastic composite panels in Swiss trains has led to a 25 percent reduction in weight, leading to significant energy savings.





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TYPICAL APPLICATIONS

- ▶ Marine — bearings, bushings, seals, trays, decking, cutting boards, anchor shrouds, fuel / fluid handling tubing, platforms, docks, rollers, pulleys, coatings, dock fenders, non-slip walkways, seals, gaskets, cable guides, wall panels
- ▶ Trucks — truck bed liners, wear pads, covers, snow plows, fifth wheel bearing plates, wheel indicators, outrigger pads, OEM parts
- ▶ Road/Bridge Construction — SVI pads, bridge bearing pads, conveyor sleeves, bushings, bearings, bumpers, wear plates, isolation pads, expansion joints, rollers, sheaves, guides
- ▶ Mass transit (rail car and bus) — bearings, sheaves, bushings, liners, coupler carrier wear plates, brake bean guides, center bowl liners, bus windows, wall panels, mirrors, driver security glazing, electrical wear shoes, bus curbs, gaskets

MATERIALS:

- ▶ Acetal (POM)
- ▶ Acrylic (PMMA)
- ▶ Acrylonitrile-Butadiene-Styrene (ABS)
- ▶ Epoxy
- ▶ FRP Grating
- ▶ High-Density Polyethylene (HDPE)
- ▶ Nylon/Cast Nylon (PA)
- ▶ Phenolics (Industrial Thermosets)
- ▶ Polycarbonate (PC)
- ▶ Polyetheretherketone (PEEK)
- ▶ Polyetherimide (PEI)
- ▶ Polyethylene (PE)
- ▶ Polyethylene Terephthalate (PET)
- ▶ Polyurethane
- ▶ Polytetrafluoroethylene (PTFE)
- ▶ Polyvinyl Chloride (PVC)
- ▶ PVC/Acrylic Alloy
- ▶ Rubber (Molded and Sheet)
- ▶ Silicone (SI)
- ▶ Styrene Maleic Anhydride-Polycarbonate (SMA-PC)
- ▶ Thermoplastic Elastomer (TPE)
- ▶ Thermoplastic Polyesters
- ▶ 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.

