



AUTOMOTIVE

PLASTIC AND RUBBER APPLICATIONS

From mechanical parts to automotive interiors to external applications, plastics are driving safer, more durable, lightweight, fuel efficient designs in today's cars.

ADVANTAGES

- Lightweight for increased fuel efficiency
- Recyclable
- Corrosion, abrasion and fatigue resistant
- Wide range of stiffness, tensile strength and creep resistant
- Surface finish and appearance \odot
- \mathbf{O} Low wear

- Low moisture absorption
 - Thermoformability
 - Weatherability
- High lubricity, self-lubrication, low coefficient of friction
- Low warpage

Wiring harnesses

Power train components

transmission gears

Wheel well liners

Moisture barriers

Truck trailer skirts

Bed liners

Trunk liners

Solid color, eliminating painting

Internal transmission parts including

Car covers and protection panels

TYPICAL APPLICATIONS

- Mud flaps
- Thermal and sound insulation
- Sheathing and jacketing
- Component housings
- Switches and sockets
- Connectors
- Bearings and bushings
- Gaskets, washers, spacers
- Fluid lines

MATERIALS:

- Acetal (POM)
- Acrylonitrile-Butadiene-Styrene (ABS)
- Acrylic (PMMA)
- Long Fiber Reinforced Thermoplastics (LFRT)
- Nylon (PA)
- Polyamideimide (PAI)
- Polyetheretherketone (PEEK)
- Polybutylene (PBT)

- Polycarbonate (PC)
- Polyethylene (PE)
- Polyethylene Terephthalate (PET)
- Polypropylene (PP)
- Polyurethane (PUR)
- Polyetherimide (PEI)
- Polyphenylene Oxide (PPO)
- Polyphenylsulfone (PPS)

DID YOU KNOW?

More than 50 percent of a typical car is composed of plastics and polymer composites, but those materials account for only approximately 10 percent of vehicle weight.

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.

