



Custom Molding Polyurethane Products

Whether your company requires a solid polyurethane part weighing less than an ounce or 25 pounds of urethane bonded to a 100 pound steel shaft, Seneca Products can fulfill your polyurethane needs. If you have an existing poly part, Seneca may be able to save you money, be a second source, or improve delivery reliability and shorten lead times so that your company will be able to save money by stocking less inventory. If you are designing a new product or machinery for your production, consider using polyurethane where you would normally engineer use of metal, rubber or plastic parts.

Save on Maintenance Costs

Are excessive maintenance costs eating away at your bottom line? Perhaps Seneca Products can help defray them. Polyurethane stands up to wear and tear better than rubber, plastic and oftentimes, metal, saving your company money on maintenance and replacement parts as well as minimizing down time. Ask yourself, "What breaks down quickly or wears out prematurely?" If it's made from metal, rubber or plastic, call on our helpful sales staff for help in selecting a urethane that will suit your particular need. Do you have an existing urethane part that is causing you problems? You might need different polyurethane with mechanical strengths better suited to your specific needs. Again, call Seneca for help.

Custom Designed Parts

Seneca specializes in custom molding parts that fit each of our customer's specific requirements. Polyurethanes come in a wide variety of mechanical strengths. Our urethanes can range



in hardness from 20 to 95 Shore A and up through 80 Shore D. Continued improvements in raw materials and techniques are constantly stretching those limits as well as the boundaries of other polyurethane properties. Seneca polyurethane provides excellent thermal resistance. Certain urethanes can withstand continuous temperatures as high as 120 degrees Centigrade (248 degrees Fahrenheit). Urethanes will retain flexibility at very low temperatures (-95 degrees C or -140 degrees F), but will start to show signs of stiffening beginning at -17.8 degrees C (0 degrees F).

Reduction of Parts and Weight

Utilizing a little creativity when working with urethanes can go a long way in saving your company money. One carefully designed poly part can take the place of a multi-part component because of polyurethane's flexibility to replace a variety of materials, and its castability. Also, replacing metal parts with polyurethane will make your final product lighter, less costly to ship, and easier to handle.

In Short, We are Here to Serve You!

We at Seneca work with purchasing, engineering, production and maintenance personnel to help them identify and design parts that will maximize your company's performance. Feel free to send us a drawing or sample part, or call to discuss your ideas with one of our helpful staff members. Seneca is committed to the continued improvement of the products we provide by utilizing new polymers, machines and techniques. Our sales staff will assist you in finding the most effective way to utilize polyurethane in your operation or final product.

Should You Try Seneca's Custom-molded Polyurethane?

Castable polyurethanes can reduce your company's fabricating costs and are inexpensive to prototype. The material has great flexibility to meet most situations. Decide what mechanical strengths your part would need and there is probably a urethane that will match it. Do you have an application that could utilize Seneca's polyurethane?

Based on the advantages polyurethane has over metal, rubber or plastics, here are some questions you should ask yourself...

For Replacing Metal Components:

- Do I have metal pieces that are wearing out prematurely?
- Do I need to reduce the noise in my facility?
- Is oxidation a problem?
- Do I need the part to be more flexible?
- Do I need a component that is non-conductive or non-sparking?
- Is weight of the part an issue?

To Substitute For Plastics Parts:

- Are your pieces too brittle and chipping apart?
- Do you need a more resilient piece?

- Do the plastic parts wear or grind down?
- Do you need a part that operates in a broader temperature range?

To Replace Rubber Parts:

- Do your rubber pieces need better abrasion and/or cut and tear resistance?
- Do the parts need to be oil resistant?
- Is colorability an issue?
- Are your parts showing signs of weathering or effects from exposure to ozone?
- Would you benefit from a harder, yet still flexible part?

If you answered "yes" to any of these questions, then polyurethane may be the material for your solution. Whether you are upgrading your finished product, designing a new machine for production, or maintaining existing parts, give Seneca Products a try.

