



About Engineered Shapes and Solutions

What we do

As part of Mitsubishi Chemical Group, we take pride in being a leading global manufacturer of high-performance thermoplastic materials in the form of semi-finished polymer shapes and finished parts. We have locations in 20 countries and over 2,800 employees. Our specialty engineering thermoplastic shapes are superior in performance to metals and other traditional materials. These shapes are used in a wide range of applications where due to part size, volume, or precision; injection molding does not fit. We're continuously developing new areas of applications, working closely with industry leaders in a broad variety of customer markets. Our engineered polymers can be produced in the form of:

- Plates
- Tubes
- Rods
- Near net shapes

How to use our shapes

Our high-performance materials are processed into high quality shapes that come in a range of sizes to fit your application. These shapes can then be machined into whatever you desire. You can mill, drill, turn, saw, and even weld our materials with standard machining equipment and commonly available tooling.

We can

- Produce high quality engineering level polymer shapes
- Find the best quality material for yourself or your customers
- Deliver the information needed to machine the perfect part
- Reduce how often production parts need replaced
- Provide exceptional customer service

Our materials are broken into four categories

- 1. Standard Plastics (PP, HDPE, LDPE)**
Polyolefins are chemically inert, easily fabricated and the lowest cost making them ideal for worksurfaces, fixtures, welded cabinets, and tanks.
- 2. General Engineering Plastics (PC, PET-P, PPO, PA, POM, UHMW-PE)**
General engineering plastics offer cost effectiveness solution for both wear and structural parts operating below 250 F. They are widely used in machinery as mechanical parts such as bearings, bushings, gears, and guides.
- 3. Advanced Engineering Plastics (PEEK, PEI, PPS, PPSU, PSU, PTFE)**
These materials offer a balance of heat resistance, chemical resistance and wear resistance that extend the useful range of engineered thermoplastics.
- 4. Imidized Plastics (PBI, PI, PAI)**
These materials are the best of the best. They can survive service critical applications, especially those involving high temperatures.