

# Custom Injection Molded Parts

## Experience. Service. Performance.

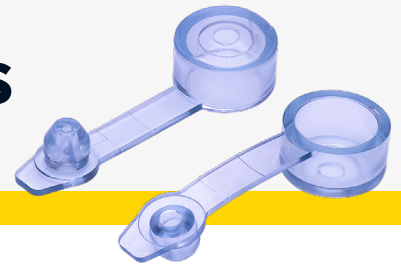


**MW Components - East Providence** creates specialized solutions for custom injection molded parts requiring the highest precision and tightest tolerances. All incoming projects are reviewed by our engineers who advise through DFM and validation, working to support your parts from concept to production.

**Custom Injection Molded Parts.** Our design and engineering experts routinely work with customers to develop custom injection molding solutions fit for unique applications and use cases, finding success with custom components for medical, automotive, and aerospace applications. Our experts offer decades of engineering experience working with a wide variety of customers as well as key knowledge to ensure design for manufacturability. We also have an extensive track record utilizing custom materials that are tailored for our customer's property-intensive applications. These include biomaterials like bioresorbable polymers, metal replacement polymers, and custom compounded resin with fillers like barium sulfate, bismuth trioxide, fire retardants, and lubricants. We've even found success replacing glass optics with plastic! Substantially reducing lead times, cost, and weight of the overall project.

**Dedicated In-House Tool Room.** Expect fast turnaround for all tooling concerns and most prototype requests. Providing this service in-house allows us to vertically integrate supply chain expertise at all levels of product development allowing for reduce lead times by anticipating problems and developing solutions before they affect deliveries.

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**Experience Running Boutique Resins for Demanding Applications.** With the speed of innovation in medical and aerospace materials, we constantly endeavor to work with the newest polymers on the market. We have experience working with bioresorbable polymers and their developers throughout the production process to ensure proper performance of our products. Linking customers directly with custom compounding houses makes sure they're able to tailor their polymer uniquely to the application by adding novel additives such as barium sulfate, anthracite fiber, and more.

**Dedicated to Part Quality.** Our site holds ISO 9001 and 13485 certifications, reflecting our dedication to providing the highest quality parts. In-house medical validation includes rigorous testing throughout IQ/OQ/PQ giving you the highest degree of confidence that all parts produced meet rigorous requirements for dimensional stability.

**Quality Materials.** Injection molded parts are made from a range of thermoplastics, most of which have been run at East Providence. A selection of these high-quality polymers we've specialized in can be found below:

- Acetal (POM)
- Acrylonitrile Butadiene Styrene (ABS)
- Liquid Crystal Polymer (LCP)
- Nylon (PA)
- Polybutylene Terephthalate (PBT)
- Polyetheretherketone (PEEK)
- Polyglycolic Acid (PGA)
- Polylactic Acid (PLA)
- Polyphthalamide (PPA)
- Ultem® (PEI)
- Others



**MW Components**

To learn more visit [MWComponents.com](https://www.MWComponents.com) or contact us at 401.434.3040 | [sales@mwcomponents.com](mailto:sales@mwcomponents.com)

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