

# Engineered Polymer Systems Division

The Engineered Polymer Systems Division of Parker Hannifin offers materials, engineering and precision quality molding to quickly and safely get your products to market faster.

## Our Capabilities Include:

- Class 1,000 and Class 10,000 Clean Rooms
- Material Formulation
- FEA Design Engineering
- Application Engineering
- Project Management
- In-House Tooling
- Injection Molding
- Insert Molding
- Compression Molding
- Precision CNC Machining
- Fabrication and Assembly



Parker Hannifin has the prestigious reputation of being an industry leader for over 40 years in manufacturing custom shapes, seals and components from thermoplastic elastomers, PTFE and rubber. Our innovative material portfolio includes standard as well as custom formulated medical grade urethanes which we mold in clean room environments.



Urethane Production in Class 1000 Clean Room

Parker combines materials and manufacturing expertise with on-site tooling, project management, experienced application engineering and quality management systems to confidently deliver biomedical customers a competitive edge at every step in the process.

Let Parker's material chemists, technical experts and engineering professionals combine your precision medical device solutions with the science and art of urethane manufacturing so that together we can continuously improve the quality of our lives.

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Engineered Polymer Systems Division  
Salt Lake City, Utah  
Phone: 801 972 3000

ENGINEERING YOUR SUCCESS.

# Material Experts

When it comes to molding standard or custom engineered materials, Parker's expertise is unmatched in urethanes, elastomers & PTFE

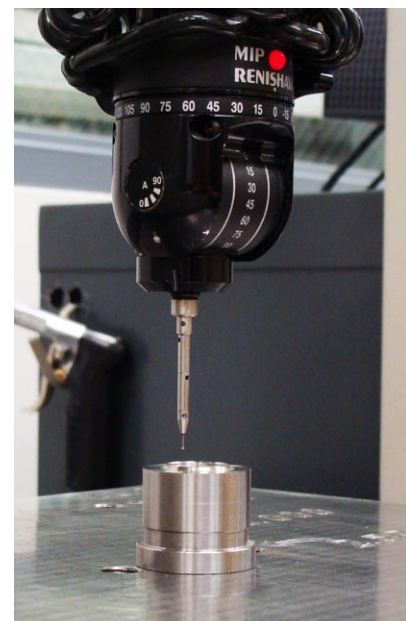


## Standard Materials

|                                      |  |
|--------------------------------------|--|
| <b>Polyurethanes</b>                 | <b>Thermoplastics</b>                          |
| Aliphatic                            | Copolyester (TPCE)                             |
| Aromatic                             | Vulcanizates (TPV)                             |
| Polyether                            | Rubber (TPR)                                   |
| Polyester                            | Polycarbonate (PC)                             |
| Polycarbonate                        | Polyphenylsulfone (PPSU)                       |
| <b>Fluoropolymers</b>                | Polyethersulfone (PES)                         |
| PTFE: Filled & Unfilled              | Polyphenylene Sulfide (PPS)                    |
| Perfluoroalkoxy (PFA)                | Polyetheretherketone (PEEK)                    |
| Fluorinated Ethylene-Propylene (FEP) | Polyethylene (PE)                              |
| <b>Thermoset Rubbers</b>             | Polypropylene (PP)                             |
| Nitrile Butadiene Rubber (NBR)       | Thermoplastic Polyolefin (TPO)                 |
| HNBR                                 | Ultra High Molecular Wt. Polyethylene (UHMWPE) |
| EPR, EPDM                            | Acrylonitrile Butadiene Styrene (ABS)          |
| FKM, FFKM                            | <b>Polyamides</b>                              |
| Neoprene                             | Nylon 6  |
| Chlorobutyl                          | Nylon 6,6                                      |
| Silicone                             | Nylon 46                                       |
|                                      | Nylon 11                                       |

## Custom Medical Grade Formulations

Parker is positioned to meet your current needs as well as formulate and produce custom materials to launch your future business successes. Our Class 1000 clean room facilitates captive production — utilizing ventilated batch lab, full-service material lab and full-service mechanical test lab — of medical grade urethanes overseen by on-site chemists under strict quality control processes.



On-site tooling sets Parker apart

## More Than Manufacturing

Our intimate understanding of polymer chemistry and the behavior of urethanes during processing and molding is what differentiates us from other manufacturers and molders. Creating quality devices requires using quality materials and maintaining tightly controlled processes at the fundamental chemistry level as well as every step thereafter — material processing, delivery, moisture control, molding and secondary operations. What this means for you is safe and reliable delivery of higher quality products.

Quality is built in to every phase of your project with Parker.



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