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## High-Performance Sealing Solutions Precision-Molded Rubber Products

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+1 612-333-7464 or 1-800-394-6590

## Seals and Custom-Molded Parts that Exceed Requirements

Precision Associates, Inc. (PAI) is a leader in providing high-performance, consistent sealing solutions and precision-molded rubber products that exceed requirements in diverse industries. Experts in advanced material formulation, PAI has over 1,000 formulations engineered for your requirements. We manufacture micro and miniature parts that are 0.004" (0.1 mm) to larger, complex components that are 36" (914 mm) in size. In addition to custom seals and rubber products, PAI offers more than 3,000 standard seals. Many of our catalog products are in stock and ready for immediate shipment.

## Comprehensive, Responsive Service

PAI provides engineering and manufacturing services for custom seals and parts as well as immediate shipment for in-stock, standard O-rings, lip seals and other seals. When your requirements are unique, we provide formulation and tooling expertise to deliver the exact custom product you need.

- Design for manufacturing to reduce costs without compromising performance
- Quickly produced, economical prototypes
- Materials engineered and custom formulated for specific environments
- In-house mold design and tool construction
- LIM, injection, transfer and compression molding
- Class 7 cleanroom
- Precision-molded rubber gaskets
- Rubber bonded to metal or plastic inserts
- Close-tolerance machined plastic components
- Secondary and value-added manufacturing
- Color coding, assembly, laser engraving custom packaging and labeling
- Full lot traceability

### Markets Served

- Medical
- Food and Beverage
- Oil and Gas
- Electronics
- Fluid Power
- Water
- Industrial Controls



## Standard Seals and Complex Custom Components

PAI offers one of the most extensive catalogs of seals available for immediate shipment. All products are manufactured in the United States to the highest quality standards.

Over 3,000 catalog seals

- O-Rings
- U-Cups
- X-Rings
- Multiseal™
- And more

## Advanced Material Formulation

PAI offers the broadest selection of materials engineered to your performance characteristics. With more than 1,000 material formulations, PAI likely has the right compound for your application, such as low-temperature, abrasion-resistant, internally lubricated, UL, REACH, RoHS, ADI-free and conflict-free materials. If you require something unique, our on-site laboratory develops custom formulations from over 20 polymer groups, including Silicone, FKM, FEPM, FFKM, EPDM, NBR and HNBR. Additionally, PAI regularly reviews new polymers to bring you the latest in sealing technology. Whatever your application, PAI has the material expertise to meet your needs.

- **Medical** – USP Class VI and ISO 10993 materials produced in 13,000-square foot Class 7 cleanroom featuring silicone – both (HCR) high-consistency rubber and (LSR) liquid-silicone rubber, FKM, EPDM, FFKM
- **Food and beverage** – NSF61, EC1935/2004, FDA or 3A sanitary compounds
- **Oil, gas and chemical** – materials resistant to high temperatures, high pressures and harsh chemicals, including rapid gas decompression (RGD) and sour-gas-resistant materials
- **And more**

## Meticulous Quality Standards

PAI is committed to complying with the highest quality standards, delivering consistent seals and parts to ensure that your requirements are met or surpassed. In addition to advanced quality control systems, our quality process includes 100 percent visual inspection of each lot of parts prior to shipment. Committed to continuous improvement, our facility is Good Manufacturing Practice (GMP), ITAR registered and ISO 9001:2015 and ISO 13485:2016 certified.

