

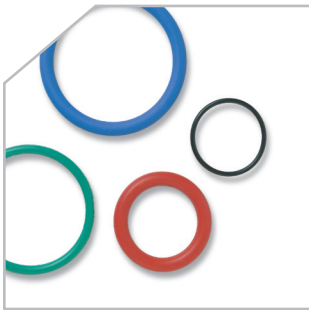


The Industry's Broadest Range of Products and Services

As a leading designer and manufacturer of seals and sealing devices, Apple Rubber offers the industry's broadest range of products to meet your seal requirements. We also have an unparalleled range of services and capabilities, and continually implement new technologies to meet the changing needs of our customers. This combination makes Apple Rubber an exceptional resource for your sealing solutions.

An overview of our products and services follows. As always, if you don't see what you need, give us a call at **1.800.828.7745** or visit our website at **www.applerubber.com**. Experienced, knowledgeable sealing professionals are ready to assist you.

Products



O-Rings

The widest size range of O-rings in the seal industry, including every AS-568* Standard; most metrics; and a wide variety of non-standard sizes. Available in all common and many special materials and durometers.



MacrOring™ Seals

MacrOring™ seals are manufactured by proprietary processes for greater strength and tighter tolerances than conventional, large sized bonded O-rings. Available in a broad range of sizes from 5" I.D. to 500" I.D. and in cross sections from .063" to 1". Available in the most popular materials.

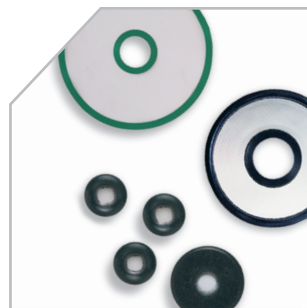
*Note: The current revision of the Standard is "C" but it changes periodically.

Custom Products



MicrOring™ Seals

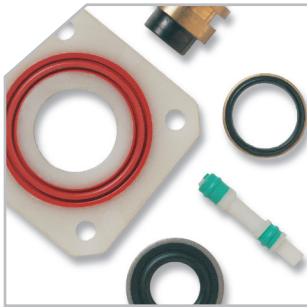
The largest selection of microminiature O-rings anywhere. A MicrOring™ seal is any O-ring that measures less than 1 mm in either inside diameter (I.D.) or cross section (C.S.). Over 2,000 sizes of MicrOring™ seals, from .039" I.D. or C.S. down to .008" I.D., the world's smallest O-ring. Microminiature composite seals and custom-engineered microminiature seals also available on special order.



FilterSeals®

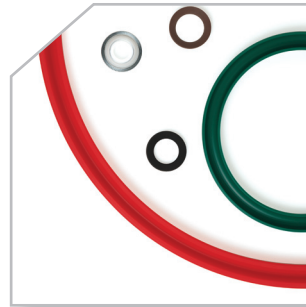
Innovative FilterSeals® are custom designed as a combination elastomer and fabric device that operates as both a seal and a filter. A wide variety of elastomers can be bonded to a variety of filter materials (Teflon® Membrane, Nylon, Dacron®, etc.). This process provides cost and time savings - one part to purchase instead of two; one part to install.

Custom Products (continued)



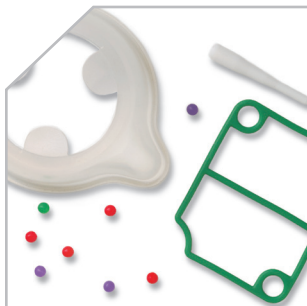
Composite Seals

Custom-engineered composite seals incorporating the seal and another component into one part - increases performance and reduces assembly costs. Composite seals include complicated parts such as rubber bonded to metal and plastic.



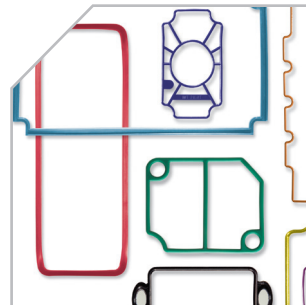
ExpresSeal®

Advanced, computerized manufacturing technology produces hydraulic and pneumatic seals in minutes for emergency replacements, hard-to-find parts, prototypes and more. U-cups, wipers, piston rings, bushings, back-up rings, wear rings, and O-rings are also available from inventory.



LSR (Liquid Silicone Rubber) Parts and Seals

LSR parts and seals exhibit a wide temperature range (-75°C to 225°C), low compression set, and resistance to the damaging effects of sunlight and ozone. Available in a durometer range of 20-80 Shore A for virtually any type seal or part including O-rings, gaskets, face seals, housing seals, FilterSeals®, and custom shapes.



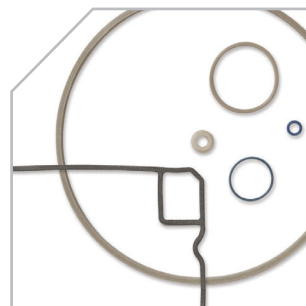
Housing Seals

Superior seals are custom designed to fit specific housings. Ideal for a variety of applications, they outperform flat gaskets and other gasketing methods. Silicone housing (face) seals are generally reusable after disassembly, unlike RTV gaskets. Available in a range of hardnesses for plastic or metal housing requirements.



Custom Molded Shapes

Custom designed all-rubber shaped seals meet exact specifications, including microminiature shapes. Examples include molded inserts, bushings, poppets, connector seals and piston seals. Custom shapes and seals are available in a wide variety of materials.

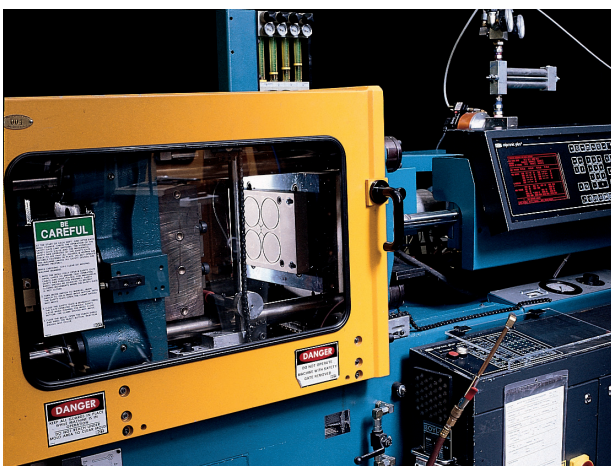
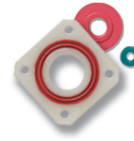


EMI Shielded O-Rings and Seals

Custom designed, EMI-shielded O-rings and seals for a variety of electronic applications provide an alternative to metallic coatings and other methods.



Products and Services



Services

Whether you require design engineering assistance, a fast prototype or a customized quality assurance program, this is where you'll find information on all the services Apple Rubber can provide for your sealing solution.

Design Engineering

Our engineers have a broad range of experience and knowledge in seal design acquired over more than 25 years of solving problems for diverse industries and applications. Capabilities include concurrent engineering, complete project management, computer aided design, expertise in polymer technology and other materials, and prototyping to drastically reduce development cycle time.

Research & Development

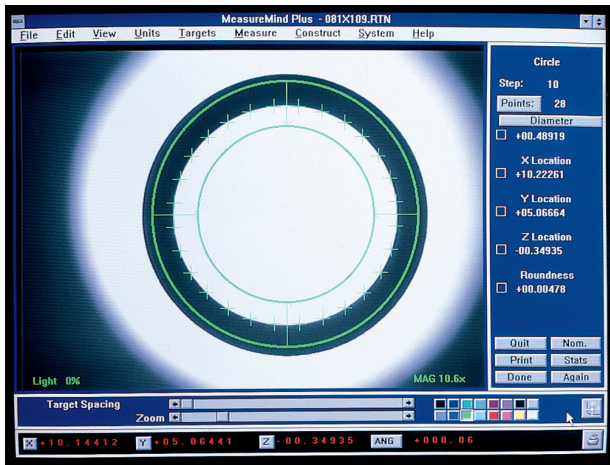
It is our obligation to provide the best sealing solutions of tomorrow as well as today. Confronted continually by the challenges of new applications from industries as diverse as medical, electronics, aerospace and automotive, we are always exploring new designs, new materials and new processes.

Customer Service

With direct access to Apple Rubber's knowledgeable sales team, design engineers and QC staff, you have the "source" working for you. No middlemen... no confusion... no games.

Comprehensive Manufacturing Technologies

We have an unparalleled range of capabilities and fully integrated manufacturing facilities including transfer molding, compression molding, liquid injection molding, plastic injection molding, CNC machining, and proprietary bonding processes.



Prototyping

We have the experience and advanced processes to respond quickly to prototype requirements, helping you to drastically reduce design and development time.

ISO 9001 Registration

Apple Rubber Products earned ISO 9001 Registration from Underwriters Laboratories Inc. (UL). The scope of our ISO 9001 registration, the most comprehensive standard of the ISO 9000 series, covers the design and manufacture of sealing components for various applications including aerospace, automotive and medical products. ISO 9001 Registration is testimony to Apple Rubber's commitment to offering the highest quality seals and sealing devices available. Apple Rubber actively participates in ongoing certification updates. Check our website for the most current certification listings and documentation.

AS9100B

Underwriters Laboratories certifies that Apple Rubber's quality management system meets the requirements of AS 9100B, Quality Management Systems - Aerospace - Requirements. AS 9100 incorporates the requirements of ISO 9001 and adds requirements specific to the aerospace industry.

Quality Assurance & Testing

Apple Rubber's advanced testing laboratory offers one of the most stringent quality assurance programs in the industry. Material and dimensional certifications are available. We can customize a quality program to meet your specific testing requirements, and supply documentation with shipments.

Apple Rubber Products
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