Complete Sealing Solutions

Manufacturing
Design Engineering
Quality Assurance

Apple Rubber

applerubber.com
Parts and Seals for Medical Applications

From face seals to custom shapes, our capabilities enable Apple Rubber to create virtually any type of custom seal or part for your medical applications. Apple Rubber also offers medical-grade elastomers such as silicone, Viton® fluororubber (FKM) and EPDM rubber for medical applications. Such elastomers feature improved chemical resistors, excellent (450°F/230°C) heat resistance, and low permeability to gases.

Silicone Properties

» Wide temperature range (-94°F to 400°F) with excellent long-term temperature resistance and low temperature flexibility
» Resistance to damaging effects of UV light, ozone, weather and lubricants
» Hydrophobic properties
» Excellent dielectric behavior
» Biocompatible and inert
» Radio opaque
» Autoclave, ETO, and Gamma Sterilization
» Neutral odor and taste
» Dimensional stability in adverse conditions
» Excellent resistance to long-term compression set
» Design advantages — available in any color and density, translucent to solid

From simple seals to the most complex parts

Apple Rubber utilizes a host of sophisticated technologies and processes — including LSR capabilities — to consistently manufacture the high quality components you demand.

» Seals for medical appliances
» Medical pump seals
  - Feeding devices
  - Seals for non implantable medical devices
  - O-Rings for dialysers
  - IV components
  - Implant materials
  - Certification to USP Class 6 and ISO 10993 is available
Products
As a leading designer and manufacturer of seals and elastomeric products, Apple Rubber has the experience, products and capabilities to deliver the exact sealing solution for your applications. From design through manufacturing to certification, Apple Rubber is the industry leader in seal design.

O-Rings in Stock-Including AS-568* Standard and ISO 3601 Metric Sizes
Apple Rubber stocks the largest inventory of seals in the industry. Standards. Metrics. Unusual sizes. This means most of your O-Ring requirements can be shipped immediately, saving you time and money.

MicroSeals™ and MicrOrings™
Innovative, tiny O-Rings were introduced by Apple Rubber to solve the problem of sealing in today’s microminiature applications. We offer over 1,000 sizes of MicrOring™ seals, from as small as .008” up to .039” I.D. We also produce a full range of microminiature MicroSeals, including composite seals.

Custom Molded Shapes
We can assist you in custom designing unusual, all-rubber shaped seals specifically for your application, including microminiature shapes for your smaller designs. Apple will be with you at every step – from design to prototype and through production.

*A. The largest inventory of seals in the industry (including AS-568* O-Rings)
B. Over 1,000 sizes of MicrOring seals as small as .008” (plus custom MicroSeals)
C. Largest selection of non-standard o-rings.

*Please check the latest standard for current version.
The Right Materials and Hardnesses
Apple Rubber has the materials for most applications, from standard to hard-to-find, including Viton®, Fluorosilicone and Teflon®. If you’re having difficulty finding softer durometer, high-temperature or other unique compounds, you’ll find them at Apple Rubber.

FilterSeal™
Our innovative FilterSeals™ are custom designed for your unique application. By combining an elastomer and filter media, a multi-function seal is created. This one part now provides cost and time savings because there is one part to purchase and install instead of two.

Silicone Housing (Face) Seals
Custom designed for your specific housing, our superior silicone housing (face) seals outperform flat gaskets and other gasketing methods. They are available in a range of hardnesses for plastic or metal housings.

Composite Seals
Complicated parts such as rubber-bonded-to-plastic and rubber-bonded-to-metal may be your sealing solution. These composite seals are often easier to install and allow for automatic assembly to reduce installation time and costs.

Quality Certifications
» ISO 9001
» AS 9100
» ROHS Compliance
» REACH
Services

From design engineering and fast prototyping to customized quality assurance, Apple Rubber provides a personalized solution to ensure all of your project specifications are met. As the industries we serve evolve, we are focused on providing the best solutions for tomorrow as well as today.

ISO Class 7 (10,000) Cleanroom

Apple Rubber’s expanded facilities include our ISO Class 7 (10,000) Cleanroom of more than 1,000 square feet. We can perform complete cleanroom processes including production, cleaning and packaging.

Complete Manufacturing

Apple Rubber’s complete manufacturing capabilities mean fast response to your sealing needs for large or small runs. Whatever the requirement, Apple has the tools to get the job done.

» Molding
» Bonding
» Transfer
» Machining
» Liquid injection
» Compression molding

Direct Service

With Apple Rubber, you deal direct with the manufacturer and eliminate the middleman, giving you distinct advantages:

» Manufacturing in the USA
» Knowledgeable account executives
» Lower lead times
» Experienced seal design engineers

Liquid Injection Molding

Our closed loop injection molding of two part liquid silicone is a highly controlled process for the manufacturing of seals with superior consistency and quality. With performance in a wide temperature range, these seals are used in a growing number of applications including housing seals, O-Rings, connector seals, automotive and medical.

Prototyping

Custom-engineered prototypes are an Apple Rubber specialty. Utilizing advanced processes and sophisticated CAD systems, we can help you drastically reduce the design and development cycle. Single cavity O-Ring molds can be cut the same day for quick prototypes.

AppleLab™ Comprehensive Testing

We offer comprehensive, careful testing of your seals through AppleLab™, one of the most stringent quality assurance programs in the industry. We are the rare seal company to offer quality assurance that routinely includes both dimensional and material validation. And because we offer full documentation, our program may allow you to reduce or eliminate costly incoming inspection.

Automated O-Ring Inspection

Fully automated O-Ring inspection system allows for 100 percent inspection if required.

Research and Development

If you require a truly unique solution, Apple Rubber has the resources to explore and develop new designs, materials and processes. We can provide reverse engineering of the compound you currently use to identify polymers, composition, specific gravity, fluid and heat aging and low temperature properties.
One Source for All Your Sealing Needs

Apple Rubber Products stocks every AS-568* and most common metric sizes, plus a wide variety of non-standard, mil spec and government-standard o-rings. Standard actual sizes include I.D.’s from .029” to 26” and cross sections from .040” to .275”.

Apple offers the widest range of sizes in the industry, starting with our exclusive MicrOrings,™ available as small as .008” I.D. We also have a large tooling inventory to eliminate production delays and save you tooling costs. In addition, Apple can custom engineer o-rings and seals for prototypes or full production runs.

To top it off, 93 percent of our orders are shipped within 24 hours. When you call Apple, you deal direct with the manufacturer. Our experienced staff provides complete and comprehensive service to help you get the correct o-ring for your application.

*Please check the latest standard for current version.

Full Line of Quality Apple Rubber Products

Products:
- O-Rings — standards, metrics, MicrOrings,™ MacrOrings™
- LSR (Liquid Silicone Rubber)
- Composite seals (rubber bonded to plastic or metal)
- Custom-molded seals
- Custom-molded shapes
- Medical seals
- Thermobonded seals
- FilterSeal™
- Military specs
- Standard and exotic materials

Services:
- Design capabilities
- Prototyping and production runs
- Full quality-control laboratory
- Class 10,000 (7) Clean Room
- ISO 9001-AS9100 B certifications

Apple Rubber

310 Erie Street
Lancaster, New York 14086
P (716) 684-6560
F (716) 684-8302
info@applerubber.com

For more information or to order call 1-800-828-7745 or visit applerubber.com.

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