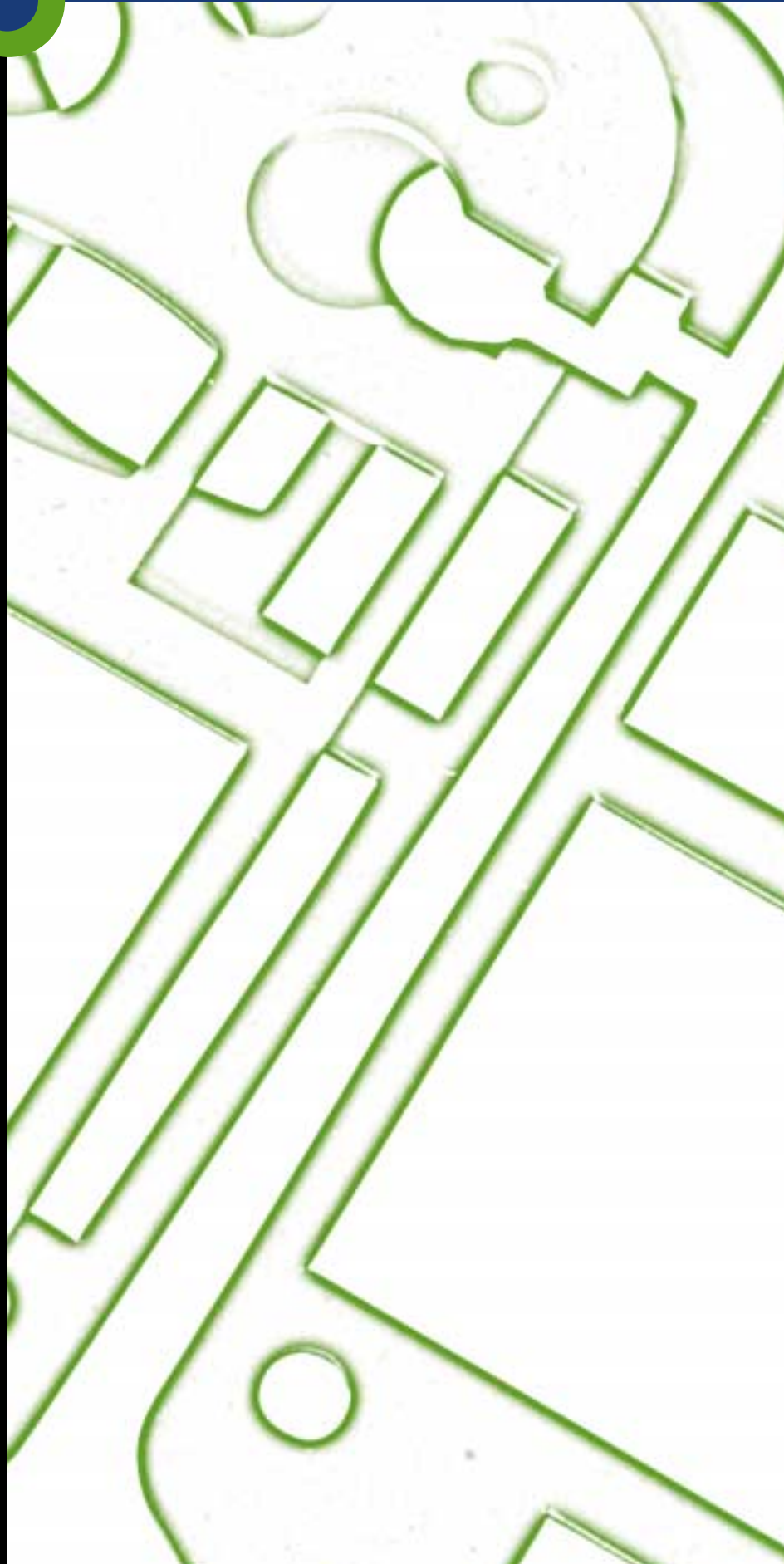




WESTERN RUBBER & SUPPLY INC.

- DIE CUTTING
- KISS CUTTING
- MOLDED RUBBER
- MOLDED PLASTIC
- VIBRATION ISOLATORS
- THERMAL MANAGEMENT
- EMI PRODUCTS
- ISO CERTIFIED
- SERVICE ORIENTED



PRODUCTS:

Large Inventory of Stock Molded Parts
Custom Parts
Huge Standard Parts Online Catalog
EMI Products
Over 500 sizes of Grommets
Over 250 sizes of Bumpers and Feet
Rubber & Sponge Stripping with & w/o Adhesive
Adhesive Bumpers
Rubber Tube
O'rings
Thermal Management Materials
Sponge and Foam
Over 50 sizes of Solid and Sponge Extrusions
Vibration Isolators
Motor Mounts
Fabrication
Plastic Products

POPULAR GASKET MATERIALS:

Silicone
Viton®
Neoprene
Buna-N
EPDM
Open Cell Sponge
Closed Cell Sponge
Silicone Foam
Silicone Sponge
Urethane
Poron® Micro-Cellular Sponge
Conductive Silicone
Polyurethane Foam
Kapton®
Polycarbonate
PVC
Teflon®
U.L. Listed Materials
FDA Materials

CAPABILITIES:

Die Cutting
Kiss-Cutting
Stripping
Laminating
Assembly
Technical Support
Problem Solving
Sourcing
Water-Jet Cutting
Laser Cutting
Fabrication
Bin Stocking

For more than 25 years, Western Rubber & Supply, Inc. has produced quality rubber products for the OEM marketplace. We are an ISO 9001 certified organization that's become a leading innovator in product design and manufacture. We specialize in manufacturing gaskets and seals, fabricating thermal management and EMI products and the distribution of vibration isolators.

Our success is built around one goal; to exceed our customer's expectations. Western Rubber & Supply, Inc. takes you from concept through production in the most efficient and cost effective manner. We evaluate your requirements and provide you with a first rate solution.

For more than two and a half decades, customers have been drawn to our quality, efficiency and competitive prices... and have stayed for the service. We are experienced in handling a wide variety of rubber and plastic products for a diverse range of industries. We would appreciate the opportunity to work with you on your next project.



KISS CUTTING

Western Rubber & Supply, Inc. specializes in cutting and fabricating custom gaskets. Specialized equipment and processes allow WRS to produce high quality gaskets at extremely competitive prices. Western Rubber & Supply, Inc. is able to control the depth, a steel rule die blade penetrates a gasket material by using a "Kiss Cutting" process. Our high-speed Preco Kiss Cutting Press enables WRS to cut down to (but not through) a release liner for easy removal of the gasket. Engineers specify easy to use kiss-cut products when assembly line efficiency is critical. Since kiss cut gaskets can dramatically reduce the time it takes assembly personnel to peel gaskets off the paper release liner, significant labor savings can be realized. Kiss-cut products can be supplied in rolls or sheets, depending on the application.



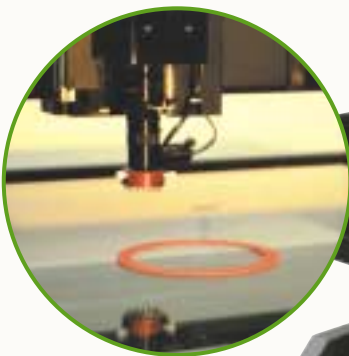
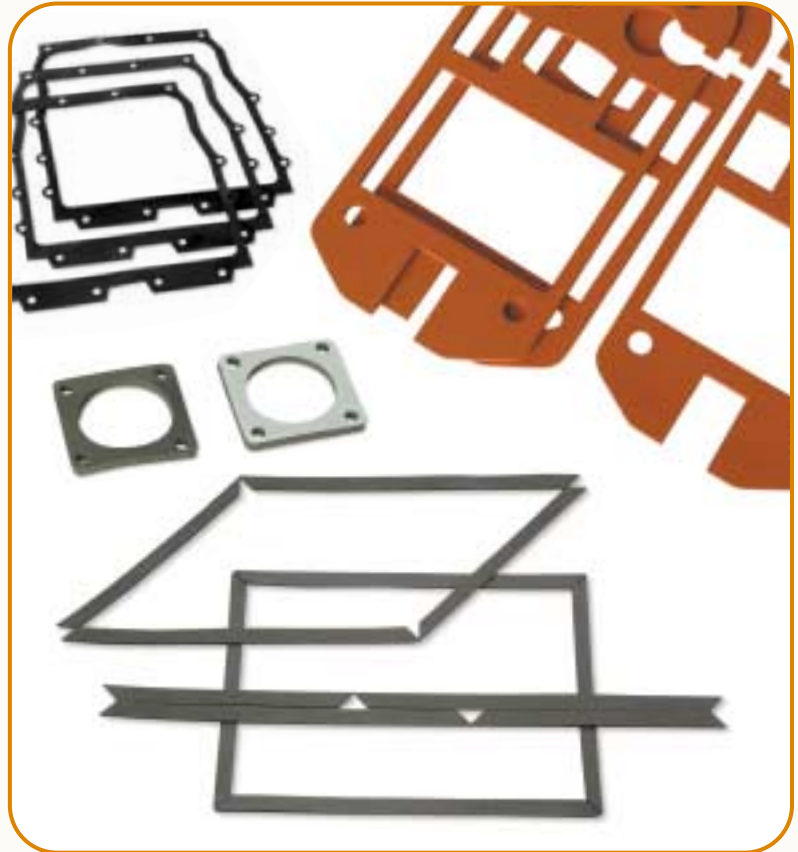
MATERIAL TYPES AND USES

Die cut gaskets are used in a wide variety of applications. Some of the more common uses of die cut gaskets are environmental seals, dust seals, vibration dampers and EMI shielding. When designing a gasket, remember to consider environmental, regulatory and electrical requirements. Many of our products can be supplied with an adhesive backing, which can reduce or eliminate the need to use difficult to control liquid adhesive on the assembly line. Our sales team is available to assist you in specifying the correct materials and die cut shapes to meet your unique requirements. (Please see the 1st page of this brochure for a partial list of popular materials).

ITEMS TO CONSIDER WHEN SPECIFYING A DIE CUT PART INCLUDE:

1. Consider a multi-cavity steel rule die instead of a single cavity. Multiple cavity dies increase the number of gaskets made with each hit, which may reduce the amount of labor needed to manufacture a production quantities.
2. In some cases, accordion style dies should be considered. Accordion style dies make efficient use of the gasket material.

Whether our production team is manufacturing a simple washer or intricately detailed gaskets, every phase of the production process follows a time-tested procedure, designed to ensure product conformity and quality.



MICRO-VU MACHINE

Western Rubber & Supply, Inc. relies on our automated vision system to help ensure product quality and conformity. The advanced metrology software allows our Quality Control Department to import CAD drawings and use the drawings as the basis for inspecting production parts. The automated system guarantee's a highly reliable, non-bias, quality inspection.

CUSTOM MOLDED PLASTIC MOLDED RUBBER EXTRUDED RUBBER

Western Rubber & Supply, Inc. is your complete source for standard off-the-shelf extrusion and molded products. To better serve, we carry an extensive inventory of standard parts and offer free samples to qualified customers.

For special applications, our custom molded and custom extruded programs are designed to provide unique solutions. Our team will help guide you through the process of specifying the correct material and just as importantly the correct manufacturing environment, while taking into consideration your special requirements.

ITEMS TO CONSIDER WHEN SELECTING A POLYMER:

- Chemical compatibility (oils, fuels, etc.)
- Physical characteristics (harder or softer materials)
- Environmental exposure (ozone resistance, etc.)
- Product life expectancy, in the working environment.

BUDGETARY, PROJECT SCHEDULE AND QUALITY CONTROL ISSUES TO CONSIDER:

- The quantity of parts to be produced annually.
- The number of cavities in the mold vs. the per-piece cost.
- Custom parts can be produced in one of our domestic or cost effective offshore plants.
- Parts can be made in factories with ISO 9000 and QS9000 quality certifications, if required.



VIBRATION ISOLATORS

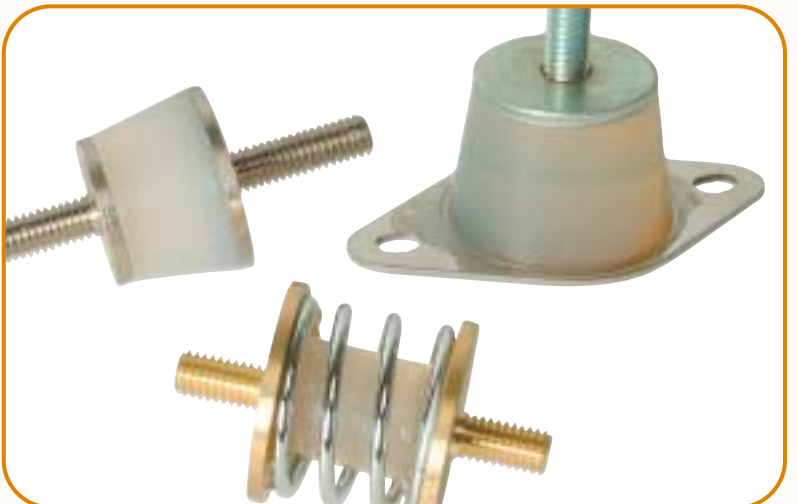
Vibration, shock and noise control components, properly applied, will improve your products. They will operate more smoothly and quietly, and they will be less disturbing to surrounding equipment and personnel, less susceptible to damage and less expensive to manufacture. Bonded rubber mounts provide cost-effective solutions to problems involving vibration, shock and structural noise control. Western Rubber & Supply, Inc. offers a variety of shapes and sizes. Our isolators are used in a wide variety of applications from the most precise medical equipment to the largest construction machinery in the world. We offer expert application assistance to help you pick the correct isolation system for your product.



Our unique **Viton® rubber coated isolators** have been used successfully in both clean-room applications and highly corrosive environments. The Viton® coating can be vulcanized to the rubber portion of most mounts. Since the coating is vulcanized to the mount, it will compress, elongate and deform in unison with the isolator. Although our Viton® coating forms an extremely clean and chemically resistant protective barrier around the rubber, it has no effect on the physical performance of the mount.



Silicone Gel Mounts are naturally high and low temperature resistant. The broad temperature range of Silicone Gel Mounts make them the perfect choice for the most demanding applications. Silicone Gel Mounts successfully isolate vibration on the latest versions of the U.S. military's unmanned reconnaissance aircraft.



THERMAL MANAGEMENT

Our gap filling, thermal management product line consists of multiple product families. Our thermal management materials have been engineered to provide an effective thermal interface between heat sinks and electronic devices.

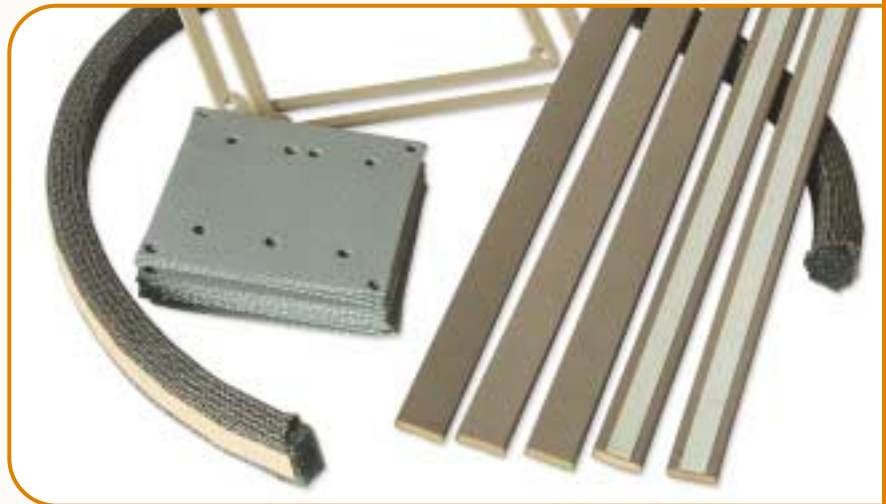
Our thicker, thermally conductive, gap filling materials are available in sizes ranging from .010" to .250" thick. Engineers have specified our advanced gap filling materials to help eliminate air gaps between heat generating devices and a chassis. The versatile gap filler material may also be used in heat pipe assemblies, signal amplifiers and even as a vibration isolation material. Engineers have even used our gap filler to completely eliminate the use of cooling fans in electronic enclosures.



Western Rubber & Supply, Inc. also sells thinner thermal management products. The thinner materials are typically used as an interface between a power transistor, CPU or other heat-generating component and a heat sink or rail. Our materials provide engineers with a clean and efficient alternative to mica, ceramics or grease for a wide range of electronic applications. As an added convenience, Western Rubber & Supply, Inc. is able to supply custom - cut pads to your specification. Most materials are available with or without adhesive on one side.

EMI PRODUCTS

Western Rubber & Supply, Inc. is a manufacturer and distributor of various EMI Shielding products. Shielding products are used as a medium to provide electrical conductivity across a gasket-flange interface. Our line of electrical-conductive elastomers includes carbon, graphite or silver-filled silicone. We also sell monel or aluminum mesh, oriented wire in silicone, metalized fabric covered foam and other specialty products. EMI products can be can be molded, die-cut, extruded or fabricated, depending on the application. See our website or let our professionals help you specify the right product for your application.





WESTERN RUBBER & SUPPLY, INC.

6161 Industrial Way
Livermore, CA 94551

PH 800-969-0998 • FX 877-441-9790

EMAIL sales@westernrubber.com

www.westernrubber.com

All marks are trademarks or registered trademarks of Western Rubber & Supply, Inc. or the manufacturers of products with which the marks are associated.
Viton®, Kapton® and Teflon® are registered trademarks of Dupont. Poron® is a registered trademark of the Rogers Corporation.

Copyright © 2003 Western Rubber & Supply, Inc. All rights reserved. Printed in USA