

**DIE CUT GASKETS**  
**CUSTOM MOLDED RUBBER**  
**EMI SHIELDING GASKETS**  
**THERMAL INTERFACE MATERIALS**  
**TAPES & ADHESIVES**  
**PERFORMANCE MATERIALS**  
**SCHOCK & VIBRATION ISOLATION**  
**ACOUSTIC MATERIALS**  
**MICROWAVE ABSORPTION**  
**FORM-IN-PLACE**

## OUR COMPANY

For over 40 years, Modus has produced reliable, high-quality rubber products for the OEM marketplace. We are an AS9100-certified organization that's become a leading manufacturer and distributor of innovative engineered solutions using state-of-the-art processes. We specialize in manufacturing gaskets and molded components, fabricating thermal management and EMI products, and distributing vibration isolators.

Modus is a one-stop shop that exceeds their customer's expectations by taking them from concept through production quickly and cost-effectively. With our online gasket quotes and ordering, as well as our goal of 99% on-time delivery, we make it easy to do business with Modus.

For more than three decades, customers have been drawn to our quality, efficiency and competitive prices... and have stayed for the service. With locations in North America and China, our rubber and plastic products support a diverse range of industries. On average, Modus offers five more manufacturing processes than other gasket companies. We appreciate the opportunity to deliver our world-class manufacturing expertise to your next project.



STANDARD PRODUCTS	MATERIALS	CUSTOM CAPABILITIES
Nolato Trishield® Form-In-Place	Silicone	Die Cutting
WesShield™ EMI Shielding Products	Viton®	Custom Molding
Rubber & Sponge Stripping with & w/o Adhesive	Neoprene	Form-In-Place
WesTherm™ Thermal Management Materials	Buna-N	Coatings
WesLastomer™ Sheet Rubber	EPDM	EMI Shielding
WesLastomer™ Sponge and Foam	Open Cell Sponge	Thermal Management
HiMag™ Microwave Absorbers	Closed Cell Sponge	Kiss Cutting
LORD Vibration Isolators	Silicone Foam	Stripping
3M Tapes and Adhesives	Silicone Sponge	Laminating
WesCoustic™ Sound Control Products	Urethane	Assembly
Compashield® Extrusion EMI Shielding Gaskets	Poron® Micro-Cellular Sponge	Problem Solving
Compashield® Molding	Conductive Silicone	Waterjet Cutting
Technicon Acoustic Insulation	Polyurethane Foam	Laser Cutting
Compatherm® Thermal Management Materials	Kapton®	Fabrication
	Polycarbonate	Stamping
	Teflon®	Digital Machining
	U.L. Listed Materials	Sourcing
	Electrically Conductive	Routing
	Thermally Conductive	

# DIE CUT GASKETS

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 unmanageable 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 1<sup>st</sup> page of this brochure for a partial list of popular materials.



Modus

## ITEMS TO CONSIDER WHEN SPECIFYING A DIE CUT PART INCLUDE:

- 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 production quantities.
- 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.



## PRECISION INSPECTION MICRO-VU AND LASER QC

Modus relies on our automated vision and laser systems 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. Our automated systems guarantee highly reliable, non-bias, quality inspections.



Precision  
Inspection

## COMPATHERM GAP FILLER

### Nolato's Thermal Shielding Solution

Nolato's CompaTherm® gap filler is a thermally conductive material that was developed to meet the growing demand for reliable, cost-effective thermal interface materials. Ideal for applications requiring heat transfer from a PCB to a heat sink, these ultra soft and pliable materials can drastically cut thermal resistance and greatly enhance cooling by filling air gaps and small irregularities. Available over a wide range of thicknesses, mechanical properties, liner solutions and thermal performance, this material can also be customized based on customer needs.

CompaTherm is so effective, many engineers have found that it can altogether eliminate the need for fans in their electronic devices. Applications for this material include general thermal management, gap filling, gaskets, and overall reduction of thermal resistance. Our experts can advise you on the best approach for your next project.



COMPATHERM

## WESHIELD™ EMI SHIELDING

Modus is a manufacturer and distributor of various EMI Shielding products, which are used as a medium to provide electrical conductivity across a gasket-flange interface. Our line of electrically 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 shielding products 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.



# **Nolato** NOLATO EMC PRODUCTION CENTER-FORM-IN-PLACE

As an authorized Nolato EMC Production Center, Modus dispenses Nolato's patented Trishield® and Trishield Soft® materials onto castings and machined parts using Nolato's advanced dispensing technology.

Our form-In-place robots use the latest automation technology to dispense a defined gasket bead on virtually any work piece. Dispensed gaskets are perfect for use in many aerospace, industrial, high technology, medical equipment and military applications.

Gaskets requiring thin profiles, intricate shapes and/or changes in the Z-axis or elevation are easily dispensed by our robots. Cutting-edge technology such as Inline Z-axis Compensation ensures our Form-In-Place gaskets meet your specification, even on imperfect gasket surfaces. Prior to dispensing, our robots check the gasket shelf and make automatic adjustments to the needle height at various locations resulting in a superior gasket.

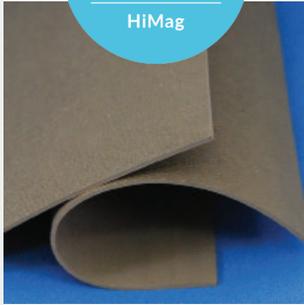
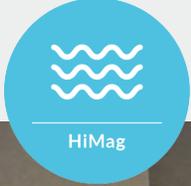
## FORM-IN-PLACE BENEFITS:

- Offers significant material cost savings
- Short lead times
- Dispensed on intricate work pieces including those with changes in elevation
- Conductive materials for EMI shielding
- UV cured materials
- Digital system assures precise gasket placement
- Modus SERVICE: Send us your work pieces or let Modus provide you with a turn-key work piece and gasket solution



Nolato

## “WES” BRANDED & 3M PRODUCTS



HiMag™ EMI/microwave absorbers for easy and cost-effective microwave absorption and shielding.



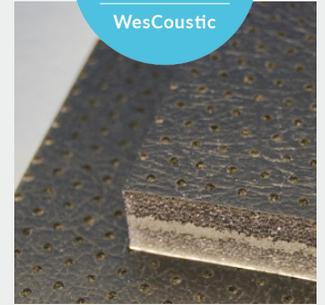
WesLastomer™ sheet rubber and sponge for superior gasketing and sealing.



WesShield™ EMI Shielding for optimal attenuation and management of electromagnetic interference in electronic devices.



WesTherm™ thermal interface materials align with our thermal strategy for effective thermal management between heat sinks and electronic equipment.



WesCoustic™ acoustical foams for maximum sound absorption.

## MATERIALS – TAPES AND ADHESIVES



We prefer to specify high quality 3M adhesives on all our brands. Through our partnership with 3M, we can offer our customers a variety of materials from a company known globally for its innovation and quality. 3M's high standards ensure that we can deliver their thermal tapes, adhesives and conductive tapes to you with the technical capability, responsiveness and value you require for your applications.



## LORD SHOCK & VIBRATION ISOLATORS

AskUsHow™

Vibration, shock, and noise control components will improve your products when properly applied. In addition to operating more smoothly and with less disruption to surrounding equipment and personnel, your product will be less susceptible to damage and more economic to manufacture. Bonded rubber mounts provide cost-effective solutions to problems involving vibration, shock, and structural noise control.

For over 75 years, LORD Corporation has led the way in developing vibration mounts, rubber mounts, shock mounts and more. As an authorized distributor, we are positioned to offer the best prices and quickest delivery of LORD products for vibration and shock management.

Modus offers a variety of shapes and sizes of LORD mounts. 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.



Shock & Vibration  
Isolators

# VALUE HOUSE-THE COMPLETE SOLUTION

## VERTICAL INTEGRATION

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

One of our custom manufacturing programs is the “Value House,” which is how we refer to our vertically integrated manufacturing model—all from one supplier. Customers provide their designs, and we provide a completed machined or cast part with the appropriate finish work, including a Form-In-Place gasket. The Value House program delivers a cost-effective solution with short lead times and a single quality control voice.

### OPERATIONS

- Secondary Finishing
- Digital Machining
- Plating
- Painting
- Form-In-Place Gaskets
- Quality Control

### SERVICES

- Domestic and overseas machining and casting
- Hot Stamping
- Pad Printing
- Assembly
- Packaging
- Turnkey

### COST-SAVING BENEFITS

- Transportation
- Packaging
- Lead Time (could save weeks)
- Quality Control (resolved in one location)
- Less Risk, Less Worry, Less Hassle



## CUSTOM MOLDED RUBBER

Why compromise by trying to make a standard part fit your custom application? Our custom molding program puts you in the driver's seat by allowing you to create the product that best suits your design.

Custom molded products can be made from a variety of polymers, including Silicone, Neoprene, EPDM, Fluoroelastomer, SBR, Nitrile, Fluorosilicone, Natural Rubber Viton®, and thermoplastic vulcanizates.



- Large format
- Molded sponge
- Prototypes to large production
- High precision, high tolerance parts
- Micro-molding
- Rubber to metal bonding
- Quick turn capabilities
- Physical and chemical testing available

### 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



## PROTOTYPES

Modus realizes that process development and prototyping are key ingredients to any successful product launch. Since we utilize the latest manufacturing technologies, it's easy for Modus to produce samples prior to a full production.

We stock a wide variety of materials and offer quick turn capability on prototypes. Lead times can be as short as 24 hours for components made from standard sheet materials.

### PROTOTYPE CAPABILITIES:

- Digital Waterjet Cutting
- Digital Cutting
- Digital Form-In-Place Gaskets
- Laser Cutting
- Die Cutting
- Single Cavity Prototype Molds for Rubber and Plastic
- Machined Components
- Vulcanizing and Bonding
- Video and Laser Quality Control
- CMM Inspection
- Material Test Reports Available



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