

RUBBER COMPOUNDING FOR GLOBAL AUTOMOTIVE APPLICATIONS



DRIVEN BY HEXPOL

 **HEXPOL**
COMPOUNDING

A Material Difference

A LEGACY OF EXCELLENCE



HEXPOL is the leading global developer and manufacturer of quality rubber compounds. Our rich heritage is defined by innovation and customer collaboration. HEXPOL scientists and technologists are among the best in the world, providing proprietary compounding solutions that address our customers' evolving needs.



From automotive and transportation to oil & gas, medical, industrial, tire and toll, and consumer applications, HEXPOL is committed to delivering value and improving the products our customers make. We have eleven locations in North America, including legacy names such as Burton Rubber Processing, Colonial Rubber Works, Gold Key Processing, Robbins LLC, Chase Elastomers, ELASTO and Müller-Kunststoffe.



These locations position us to leverage our capabilities to serve locally, ensuring optimum resources for any compounding need and personalized service to customers of all sizes, wherever they are. In North America, we have nearly 30 mixing lines, six mixing mills and more than 440,000 metric tons of working capacity.

HEXPOL capabilities include:

- **Rubber Compounding – Custom mixing and formulation development**
- **Roll Compounds – Expertise across a range of rubber roll applications**
- **Specialty Products – A comprehensive line of custom and standardized performance additives and color concentrates**
- **Tire and Toll – Large-volume mixing for tread, retread, sidewall, coating stocks, bead, inner liner, bladder, and white compounding**
- **Retreading Products– Molded envelopes and curing tubes for tires, especially for trucks, heavy equipment and airplanes.**
- **TPE Compounding – Combining the best characteristics of thermoset rubber with the processing advantages of thermoplastics**
- **Outsourcing Services – Delivering strategic, operational, and financial advantages to our valued customers**

HEXPOL legacy brands expand our global footprint, strengthen our technology leadership, and optimize our already superior customer service.

HEXPOL AB is one of the world's leading polymer groups.

Based in Malmö, Sweden, HEXPOL has a global footprint with manufacturing facilities strategically located to serve customers across North America, Europe, and Asia. HEXPOL is a US \$1 billion + a year business with 3,300 employees in ten countries. HEXPOL is a public company traded on the Nordic Stock Exchange.

WHY HEXPOL?

We're the Leading Rubber Compounder in Mexico

HEXPOL believes in Mexico. Since opening our Mexican operations in 2000, we continue to grow with our customers, whether they're in markets such as oil & gas, automotive, retread or home appliance. As our customers grow and evolve, so do we – investing in added capacity with Best-in-Class equipment and technology. And, we have the most skilled rubber mixing team in Mexico.

We are committed to listening to our customers, so we can help address your compounding needs to meet your evolving requirements. Take advantage of our production flexibility, reliable raw material supplies, advanced technical support, and access to our rubber compounding specialists. Let us be your "rubber mixing department" while you focus on what you do best.



We're at the Center of the OEM Auto Production Corridor

Today, the auto industry is one of the largest markets for rubber products. And HEXPOL is the leading supplier of compounded elastomer solutions for the auto industry. The HEXPOL team has a wide range of mixing and custom development solutions to help our automotive customers drive innovation and increase market share.

Leveraging our global presence as a worldwide market leader, we provide customers with the resources of an international corporation and the responsiveness of a small and agile local company. We're always thinking global and acting local.



HEXPOL is located in the center of Mexico's automotive production corridor. With two plants in Mexico, HEXPOL partners with major auto manufacturers and suppliers in the corridor by providing personalized service, premium quality products, and unparalleled technical support.

Aguascalientes and Queretaro – These HEXPOL award-winning facilities (*HEXPOL Compounding Plant of the Year for 2012 and runner up, respectively*) feature:

- Automated mixer control and integrated lab data
- In-line quality control
- Dense, molding, sponge compounds
- In-line/off-line straining/pelletizing
 - Slab
 - Strip
 - Pellet/Granulate
- Automated packing
- Speed & flexibility to quickly respond to changing customer requirements
- A cold room available for unique requirements
- ISO 9001/2000 and ISO 14001 Certifications

HEXPOL's two plants are strategically located within easy trucking distance from the major automotive supply chain corridors.



Both of these Mexican facilities provide quality rubber compounds that optimize your manufacturing costs. Partnering with HEXPOL enables you to improve your company's working capital position. You won't have to finance raw materials, secure capital for mixing equipment, maintenance and repair, or other associated costs with mixing rubber.

We Have Standardized Operating Procedures

To complement our presence in Mexico's automotive production corridor, our global computer information systems are fully integrated. This ensures standardization of the manufacturing and testing processes at all of our production locations worldwide for consistent and superior product quality – another example of HEXPOL's local presence and global reach.

HEXPOL: An Auto Industry Partner With...



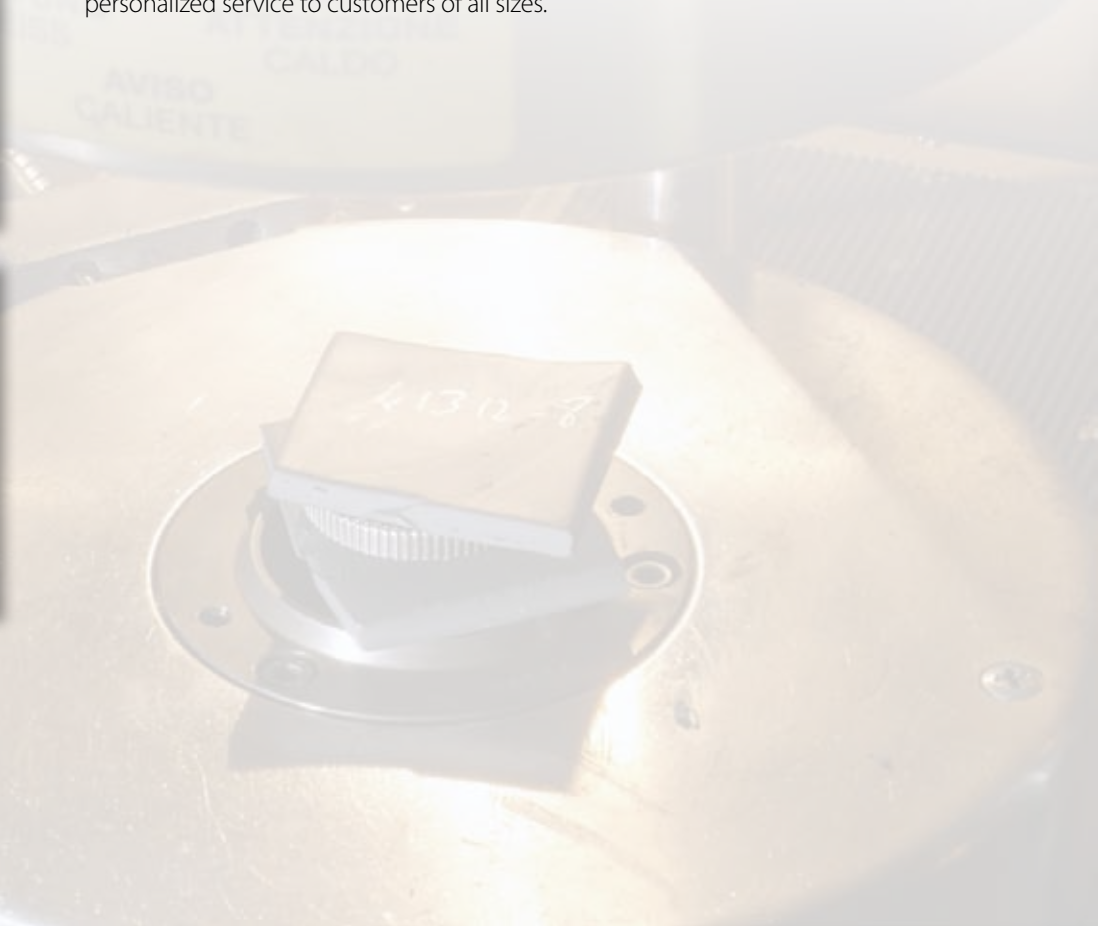
■ **A Global Presence** – **HEXPOL** is the leading supplier of compounded elastomer solutions for the auto industry. With facilities in ten countries, including eleven NAFTA locations, automotive suppliers around the world turn to **HEXPOL** for mixing and custom compounding expertise.

■ **Strong OEM and Tier 1 Supplier Relationships** – We understand the strict quality standards and specifications in the auto industry. Leveraging our global capabilities delivers the continuous improvement demanded by OEMs and suppliers alike, wherever they are located.

■ **Advanced Technology** – **HEXPOL** investments in automation, proprietary process control systems, testing and quality control ensure optimum mixing and compounding – every batch, every time.

■ **High-Performance Compounding** – Automotive rubber components require compounds that meet precise performance standards. **HEXPOL**'s mixing and formulation development capabilities help automakers find rubber solutions for applications such as weather sealing, gaskets, hoses, transmission seals, and shock and sound absorption, to name a few.

■ **Superior Customer Service** – **HEXPOL**'s industry leading polymer expertise, combined with over 60 years of mixing and product development know-how, enable us to give Best-in-Class service to our automotive customers. Our team provides personalized service to customers of all sizes.



Compounding for Demanding Applications

The right formulation and a perfect mixing process results in the optimum final automotive rubber product. Our customers benefit from leading-edge product performance and batch-to-batch consistency required for harsh environments and demanding applications.

Fuel System Components: With ever increasing regulatory and performance issues (e.g., zero emissions, bio fuels), HEXPOL is positioned to deliver solutions across all fuel system applications – from direct-fuel contact to vapor exposure. We have experience in using our comprehensive portfolio of materials for applications including o-rings, tube, hose, seals, and gaskets.

Wire Harness and Battery Cables: Abrasion resistance and protection from the environment are critical for wire harness and battery cable insulation. HEXPOL battery cable and wire harness compounds provide color-match capability and high-voltage resistance to help you meet new requirements to withstand temperature and chemical exposure.

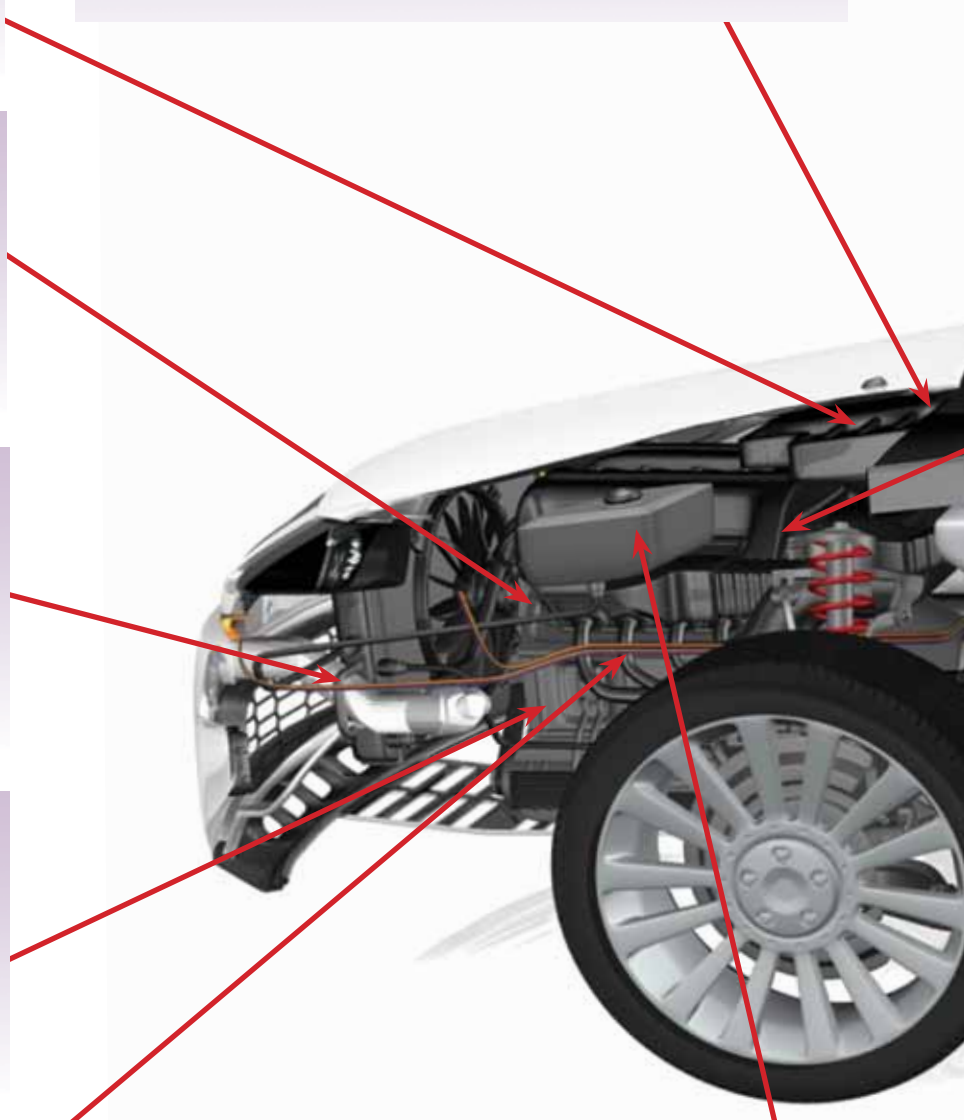
Engine Seals and Mass Air Flow: To survive the most punishing automotive engine environments, HEXPOL's durable and high-performance formulations can take the heat. A variety of polymer types, including EPDM, HNBR, and FKM formulations are suitable for multiple engine and engine accessory applications.

Constant Velocity Joint Boots: With a full line of performance solutions that are ideal for CVJ boots, HEXPOL offers CR, NBR and EPDM compounds that demonstrate outstanding performance in harsh automotive chassis environments. They stand up to aggressive chemical, dynamic, and thermal challenges.

Engine and Chassis Vibration Mounts: HEXPOL has a comprehensive portfolio of material solutions to meet increasing performance demands for Noise, Vibration, and Harshness (NVH) applications. From muffler hangers to engine mounts to vibration dampeners, we can help solve your unique application challenges.

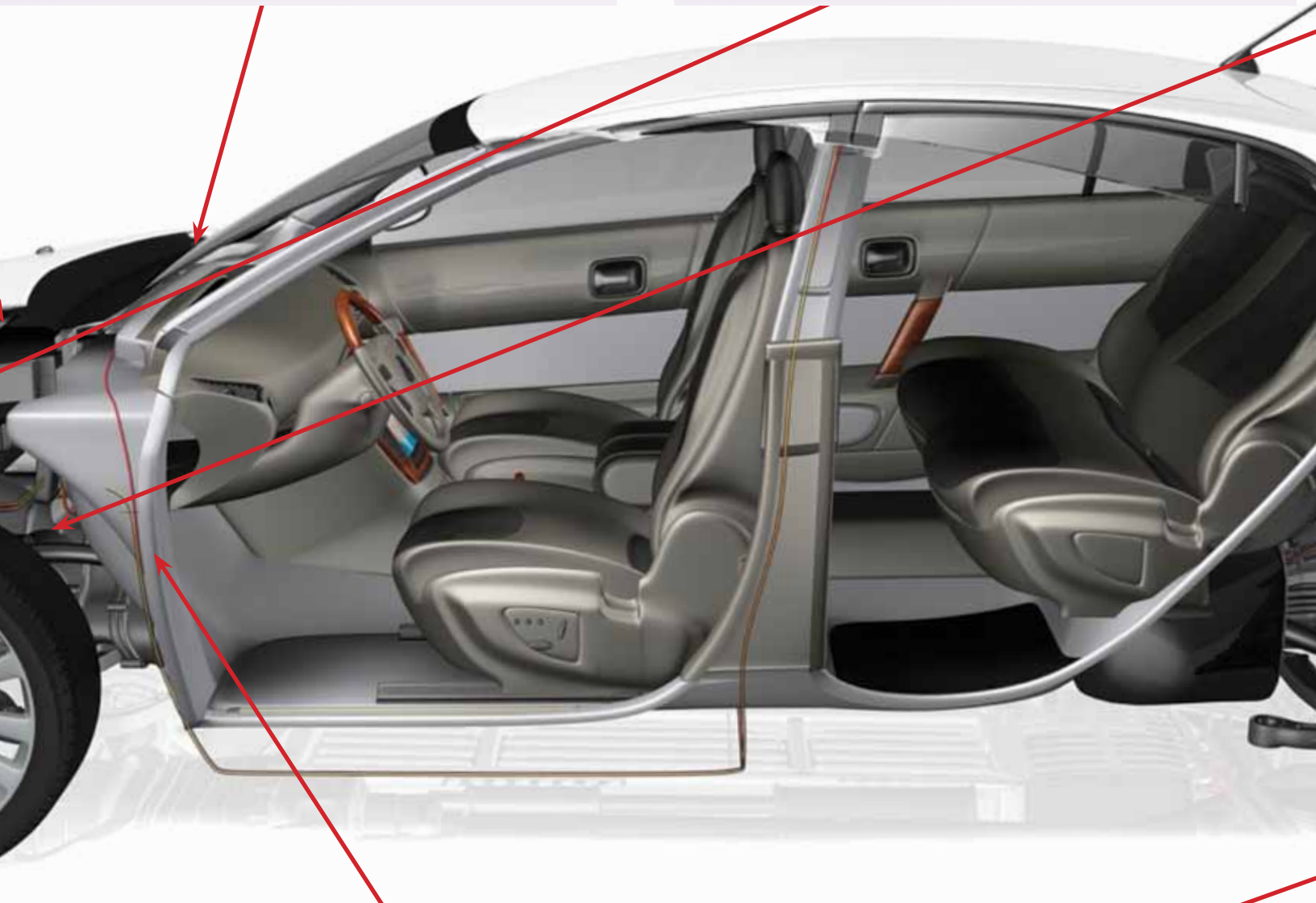
Transmission Seals and Gaskets: From dynamic seals and static gaskets to reinforced hose construction, HEXPOL has the application expertise to develop and recommend high-performance solutions. Whether optimizing existing formulations, or developing custom compounds, we have the right solution for any transmission application.

Hydraulic and Radiator Hose: We have the right mix for all of your under-the-hood hose needs. From EPDM to HNBR, HEXPOL formulations meet the demands of strenuous automotive temperature, chemical, and thermal environments. If your application is oil cooler hose, AC hose, or PVC hose, among many others, we have new formulations to meet your exacting needs based on alloy technology.



Wiper Blades: Advances in elastomer testing dramatically reduce test variability with reliable and repeatable tests that ensure the NR wiper blade compounds from HEXPOL are of the highest quality.

Turbo Hose/Molded Air Duct: HEXPOL experience in these types of applications, plus our extensive line of material solutions that include AEM, ACM and FKM enable HEXPOL to meet the stringent requirement of this application.

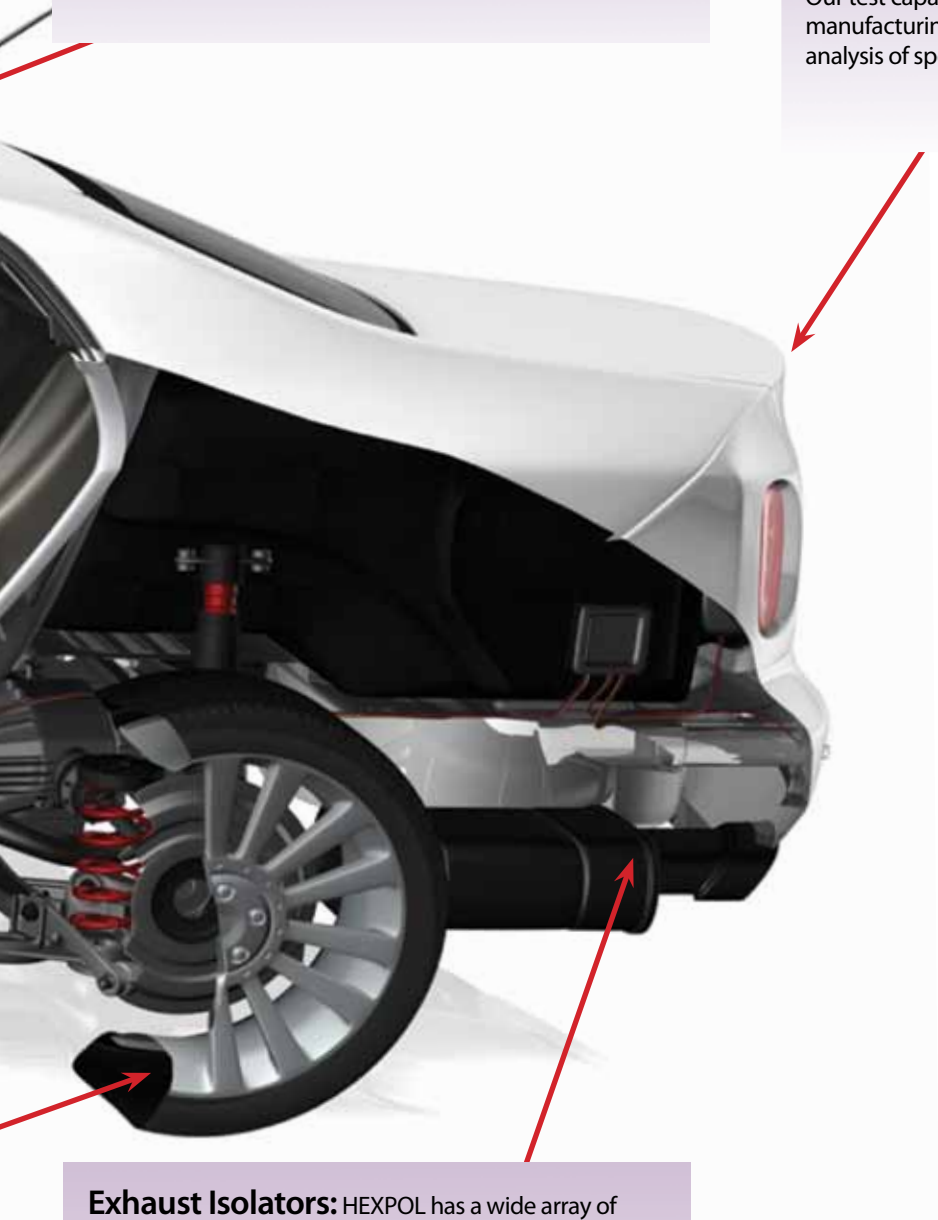


Grommets: From door grommets to spark plug boots and wire insulation, we have you covered. Our experience in all rubber types positions us to help you meet new requirements in temperature and chemical exposure, as well as delivering overall material toughness.

Tire and Toll: Large-volume mixing for tread, retread, sidewall, coating stocks, bead, inner liner, bladder, and white compounding.

Brake Parts: To meet the ever evolving performance specifications requirements for brake parts, HEXPOL has developed a variety of EPDM solutions.

Door, Trunk, Hood & Window Weatherseals: HEXPOL's advanced low-density EPDM and blend-based sponge technology are ideal for the new performance requirements of door weatherseal applications. Our test capabilities provide you with real-time manufacturing product testing for predictive analysis of sponge performance.



Exhaust Isolators: HEXPOL has a wide array of solutions to choose from for exhaust isolators applications. From muffler hangers to vibration dampeners, we will put the right mix together to solve your unique situation and application demands.



A Legacy of Excellence

HEXPOL has a rich heritage in custom rubber and TPE compounding defined by industry-leading innovation. Proudly serving our customers with global reach and local service, HEXPOL's technical team partners with customers to:

- **Develop custom solutions**
- **Provide access to quality materials**
- **Deliver technical support to meet evolving needs**

HEXPOL provides its customers with access to our worldwide resources to deliver their competitive advantage – through technology and service.

For more information about our legacy brands and world wide resources visit hexpolcompounding.com or call **(+52) 449.139.3292** or **(+52) 449.139.3272**.



HEXPOL Compounding Mexico:

HEXPOL Compounding SA de CV
Avenida Japon 302
Parque Industrial San Francisco
San Francisco de los Rómos
CP 20304 Aguascalientes - Mexico
Tel: +52 449 139 3270
info.ags@hexpol.com

EXLP Global (Mexico) SA de CV

La Noria 115, Parque Industrial Queretaro
CP 76220, Santa Rosa Jauregui, Queretaro, Mexico
Tel: +52 442 211 3500
info.qro@hexpol.com

HEXPOL Compounding USA:

HEXPOL COMPOUNDING NC Inc.
280 Crawford Road
Statesville, NC 28625 - USA
Tel: +1 704 872 1585
info.sta@hexpol.com

Gold Key Processing, Inc.

14910 Madison Road
Middlefield, OH 44062 - USA
Tel: +1 440 632 0901
info.mid@hexpol.com

HEXPOL Compounding Burton Rubber Processing

14330 Kinsman Road
Burton, OH 44021 - USA
Tel: +1 440 834 4644
info.btn@hexpol.com

HEXPOL Compounding Burton Rubber Processing

260 Old State Route 34, P.O. Box 377,
Jonesborough, TN 37659 - USA
Tel: +1 423 753 2196
info.jon@hexpol.com

Chase Elastomer

635 Tower Drive
Kennedale, TX 76060 - USA
Tel: +1 817 483 9797
info.kdl@hexpol.com

HEXPOL Compounding Colonial Rubber Works

150 S. Connell Avenue
Dyersburg, TN 38024 - USA
Tel: +1 731 285 4353
info.dyr@hexpol.com

HEXPOL Compounding California

8227 Sorensen Avenue
Sante Fe Springs, CA 90670 - USA
Tel: +1 562 945 1241
info.sfs@hexpol.com

Robbins LLC

3415 Thompson St.
Muscle Shoals, AL 35661
Tel 256 383 5441
info.msl@hexpol.com

Robbins LLC

1300 Morrical Blvd.
Findlay, Oh 45840
Tel 419 429 7300
info.fdy@hexpol.com

HEXPOL Compounding Europe:

HEXPOL Compounding Sprl

Industriestraße 36
4700 Eupen - Belgium

HEXPOL Compounding GmbH

Ottostraße 34
41836 Hückelhoven-Baal - Germany

HEXPOL Compounding sro

Sumperská 1344
78391 Unicov - Czech Republic

Gislaved Gummi AB

Abjörngatan 9
332 36 Gislaved - Sweden

HEXPOL Compounding (UK) Ltd.

Unit 3, Fifth Avenue, Tameside Park,
Dukinfield, Cheshire, SK16 4PP - England

HEXPOL Compounding Asia:

HEXPOL Compounding (Qingdao) Co., Ltd.

899 Qingdao Middle Road
266431 Jiaonan, Qingdao - China

HEXPOL Compounding (Foshan) Co., Ltd.

No.3 Xinhui Road
Wusha, Daliang, Shunde District
Foshan Guangdong 528333 - China

HEXPOL TPE:

ELASTO SWEDEN AB

Box 51 - Gamla Örnäsgatan 15
662 22 Amal - Sweden
Tel: +46 532 607 500
info@elasto.se

ELASTO UK Ltd.

Don Street Middleton
Manchester, M24 2GG - England
Tel: +44 161 654 6616
info@elasto.co.uk

Müller-Kunststoffe GmbH & Co. KG

Werk 1 (PVC)
Grünwaldstrasse 13
DE-96215 Lichtenfels
Germany
Tel: +49 9571 94894 00
info@mueller-kunststoffe.de
www.mueller-kunststoffe.com

Müller-Kunststoffe GmbH & Co. KG

Werk 2 (TPE)
Max-Planck-Str. 3
DE-96215 Lichtenfels
Germany
Tel: +49 9571 94894 00
info@mueller-kunststoffe.de
www.mueller-kunststoffe.com