Global Leader in Advanced Technologies

Total Sealing Solutions
Minnesota Rubber and Plastics

Since 1945

Minnesota Rubber and Plastics has built a worldwide reputation in the molding of elastomer and thermoplastic components and assemblies. We are especially known for our science-based approach that has made us the preferred manufacturing partner for industry leaders in North America, Europe and Asia.

Our 5 manufacturing facilities, located in North America and Asia, are complemented by 4 warehousing operations in the U.S., Europe and Asia.

Our leadership is based on our experience in materials, R&D, engineering design, product development support and program management. In addition, our state-of-the-art technical support centers work closely with our manufacturing, sourcing and logistics network to ensure that customer expectations are not only met but often exceeded.

Product Design

Our product design engineers conceptualize and evaluate ideas by combining science and technology to create value. Utilizing the latest CAD programs and FEA models, our designers mathematically model and fabricate components and their function in your applications. Our rapid prototyping decreases development time, errors and changes while improving deliveries.

Manufacturing/Process Development

Minnesota Rubber and Plastics provides the most comprehensive facilities. Our scientific approach ensures product compliance with products produced on time and on budget utilizing finest:

- Tool design and construction
- Four types of molding processes including compression, transfer, injection and liquid injection silicone (LSR)
- Scientific molding with cycle time optimization and productivity
- Latest vision inspection technology
- FMEA
- Analysis and (PPAP) documentation
- Component assembly in class 10,000 and 100,000 certified clean rooms
- Comprehensive testing
- Customized packaging and labeling.
Sourcing/Quality Systems
Meeting the expectations of our worldwide customer base requires diverse and strategically located manufacturing capabilities. Within these facilities, we combine:

- Benefits of worldwide sourcing capabilities and pricing with technical resources and project management capabilities
- Corporate wide quality systems including ISO 13485, ISO-TS 16949, ISO 9000 and ISO-14001 in all facilities.

Material Sciences
Knowing materials, their properties and structures, how processing changes them and how materials perform in an application are all vital to the success of your molding project. We provide:

- Onsite technical support at each facility
- R&D center staffed with 23 technicians
- Custom formulation materials laboratory
- Over 1,600 different rubber compounds
- Plastic materials expertise.

Program Management
Program management is a highly defined and major strategy of Minnesota Rubber and Plastics. With large scale and complex component and assembly programs, comprehensive and methodical program management ensures resources and costs are managed effectively. Our global infrastructure optimizes resources and technologies to ensure customer needs and interests are at the forefront of our entire organization.

Corporate offices for Minnesota Rubber and Plastics, and its parent Quadion Corporation, are located in Minneapolis, Minnesota. This is the primary location for project engineering, product testing, research and development, customer service and global sourcing.
Custom Molded Elastomer & Thermoplastic

Markets & Applications

**Medical & Pharmaceutical**
- Treatment  •  Drug Delivery  •  Surgical  •  Diagnostics

**Water**
- Plumbing  •  Food & Beverage  •  Filtration  •  Water Treatment

**Transportation**
- Automotive  •  Truck  •  Agriculture/Construction  •  Railroad  •  Aerospace

**Power**
- Pneumatic and Hydraulic  •  Renewable Energy  •  Oil & Gas  •  Gas Distribution

Materials & Design Engineering
- Injection Molded Plastics
- Custom Seals and Shapes
- Assemblies and Subassemblies
- Insert Molding in Thermoplastics, Rubber and Silicone
- Injection, Transfer, Compression and LSR Molding
- Micro-Molding
- Rotary Seal Rings and Thrust Washers
- Rubber to TPE Conversions

Working With Extremes
- Medical and Contaminant Free Molding
- Bearing Grade and High Temperature Thermoplastics
  - PEEK / Torlon® / Aurum®
- Friction Modified Elastomers
- Fuel and Chemical Resistant Elastomers
- High and Low Temperature Elastomers
- Thermoset Silicone and Fluorosilicone Elastomers

Standard Products
- Quad-Ring® Seals – Twice the Seal Surface, Lower Friction, Longer Life, Recessed Parting Line, Reduced Spiral Twist
- Quad® Brand O-Rings
- Quad® Brand Ground Rubber Balls
- Equi-Flex™ Rod Wiper/Scraper
Customized Engineering Solutions

Services Designed to Help You

Minnesota Rubber & Plastics provides cross-functional expertise and support from design inception to product release. What’s more, we provide specialized assistance in product development, design engineering and manufacturing services to bring your product to the marketplace. These services include:

- New Product Development (NPD)
- Global Product Development (GPD)
- Computer Aided Design (CAD)
- Design for Manufacturing (DFM)
- Design for Assembly (DFA)
- Finite Element Analysis (FEA)
- Materials engineering and specialty compounds
- Computational Fluid Dynamics (CFD)
- Mold flow simulation
- Material Cost Reduction (MCR)
- Process engineering for injection, compression, transfer and LSR molding
- Manufacturing engineering for metal to plastic conversions
- Manufacturing in North America, Europe and Asia

Superior Sealing Solutions

At Minnesota Rubber & Plastics, we provide sophisticated elastomer and plastic compound sealing technologies to produce high-performance components and assemblies. We understand the variables to be considered in creating an effective seal, including material selection, environmental effects and manufacturing. Our sealing capabilities ensure the integrity and durability of your design with a cost effective and technically reliable solution.
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River Falls, Wisconsin
- 45,000 square feet/4,200 square meters
- 24,000 square feet/2,200 square meters controlled environment molding and assembly including class 100,000 and class 10,000 certified clean rooms
- Press range: 5-400 ton
- Wide range of technically demanding high performance thermoplastics, PEEK/Torlon®/Aurum®
- Precision molded plastic components with extensive secondary operations including assemblies and finished devices
- Markets: Medical & Transportation

Litchfield, Minnesota
- 70,000 square feet/7,000 square meters
- Horizontal injection molding of black rubber
- Plastic molding
- Assemblies
- Liquid silicone rubber molding
- Extensive automation
- Vision Systems
- Clean room finishing facilities
- Custom molded engineered shapes
- Insert Molding
- Standard products: Ground rubber balls, O-Rings & Quad-Ring® Seals
- Thermoset silicone molding
Mason City, Iowa
- 54,000 square feet/4,200 square meters
- Providing global support
- Primary preforming, extrusion & mixing facility for Minnesota Rubber and Plastics

Reynosa, Mexico
- 78,000 square feet/5,100 square meters
- Compression & transfer molding
- Secondary operations & assemblies
- Insert molding
- Thermoset silicone molding
- Custom molded engineered shapes
- Standard products: O-Rings & Quad-Ring® Seals

Pacy-sur-Eure, France
- 50,000 square feet/4,650 square meters
- Distribution, sales and technical support facility
- Materials development & design engineering support
- Custom molded engineered shapes
- Prototyping services
- Regional and international sourcing
- Markets: automotive, plumbing, medical, industrial, aerospace, agricultural & consumer

Suzhou, China
- 60,000 square feet/5,600 square meters
- Horizontal injection molding of black rubber
- Compression & transfer molding
- Secondary operations
- Insert molding
- Assemblies
- Liquid Silicone Rubber (LSR) molding
- Thermoset silicone molding
- Custom molded engineered shapes
- Markets: automotive, medical, plumbing, industrial & consumer