

Beverage Dispensing



Food + Beverage

Specialists in high-performance materials development, custom molding + manufacturing



From proposal, through design to delivery, we take your business as seriously as we take our business of molding advanced, critical-to-function parts. We offer custom material formulations, and a complete selection of food and beverage certified compounds.

Our scientists and engineers formulate materials, design, manufacture, and assemble components made from

rubber and high-performance thermoplastics. Design engineers turn to us to help them build solutions that solve difficult sealing problems, with practical, cost effective designs.

Minnesota Rubber & Plastics specialize in formulation, design, manufacture and assembly of rubber and high-performance thermoplastics.

We offer custom material formulations, and a complete selection of Food and Beverage certified compounds to meet your technical specifications and stringent worldwide regulations.

Typical applications served in Beverage Dispensing:

- Rubber filler valves and adaptors
- Molded gaskets
- Aluminum can lid seals
- Bottle valve seal
- Custom O-rings
- Thrust washers

Key supplier to Food + Beverage global brands

- Design experience with Soda, Beer and Dairy
- Precision sealing designs
- Experts at overmolding rubber onto plastic or metal
- Experienced in High Performance Plastics
- MRP Laboratory has experience with Food & Beverage testing requirements
- NSF approved production facilities
- Cleanroom assembly capabilities

Beverage Dispensers

Markets:

Food & Beverage

Materials:

Global Compliant Food and Beverage Compounds:

515CG, FKM, 70 Shore A
536EG, NBR, 70 Shore A
558CH, EPDM, 70 Shore A

All above compounds are certified or meet requirements for: NSF 51, NSF 61, Sanitary 3-A, EC 1935/2004 and FDA CFR Title 21

Application

Beverage Dispenser applications vary from soda fountains at your local casual dining and fast-food restaurants to drinking water fountains to beer taps and kegs. Some of these applications have highly concentrated flavors that are extremely acidic and can cause damage to typical rubber compounds. Components within dispensers include: valves, pumps, seals, filters and o-rings.

Benefits

Beverage Dispenser applications require specially formulated rubber compounds engineered to meet the application sealing performance requirements as well as stringent worldwide certifications. Minnesota Rubber and Plastics combines material compound development leadership with superior product design expertise to deliver unmatched solutions for the beverage dispensing market.

Materials science is at the heart of any new product we develop. Our formulation chemistries are tailored to meet your exact requirements, be it elastomers, Liquid Silicone Rubbers (LSR) or high-performance thermoplastics. Any material can be developed, molded and tested in our state-of-the-art Materials R&D facility to allow you to sample the right chemistry for your applications.



Rely on us to advance your Food + Beverage programs



Comprehensive Facilities + Integrated Capabilities:

- Rubber and LSR molding
- High-performance bonding and overmolding — plastic to metal or plastic, rubber to metal or plastic
- Custom material formulation
- Injection molding of engineered and high-performance plastics
- Ability to automate as volume requires
- Component and system assembly
- Custom designed seal geometry
- Metal to plastic conversions

Superior Engineering + Technical Expertise:

- Preliminary engineering assistance and mechanical design review
- Materials engineering, including specialty compounds
- Extensive analytical and instrument laboratory for development and failure analysis
- Design for Manufacturability (DFM)
- Process engineering, including mold flow analysis, functional and leak testing
- Non-linear FEA

NSF Certification

- We've been a leader in the research and development of compounds that resist the eroding effects of chloramines and our EPDM and NBR compounds significantly outperform standard compounds in a chloramine environment.

Robust Quality + Processes:

- IATF 16949 and ISO 9000 certifications, NSF audited facilities
- Environmental Management System registered to the International Standards Organization series ISO-14001
- Mature Lean Six Sigma program



KTW/W270

Contact us today **to learn more**

Our Global Manufacturing + Supply Chains
Put You Closer To Your Customers

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