

Silicone and Organic Rubber Molding



Parker's Medical Systems Division offers biomedical and pharmaceutical OEMs a wide range of medical grade molded, insert-molded, and over-molded components. The Medical Systems Division specializes in medium to high volume liquid silicone injection molding, conventional high consistency silicone rubber and organic rubber injection molding as well as high volume organic rubber "flashless" vacuum transfer molding.

All molded components are manufactured in either a "clean" environment or in ISO Class 8 Cleanrooms in facilities located in California and Indiana and are manufactured to biomedical and pharmaceutical OEMs' dimensional and quality specifications.



Liquid Injection Molding:

With presses ranging in size from 28 tons up to 300 tons, Parker's Medical Systems Division provides medium to high volume semi-automatic, automatic cold-runner and conventional runner, Liquid Injection Molding (LIM/LSR) capabilities to its medical and pharmaceutical customers.

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Silicone Base Materials:

All silicone medical components are manufactured at Parker's Medical Systems Division plants with silicone base materials from Dow Corning, Momentive, NuSil, Shin-Etsu, and Wacker that will pass ISO 10993 tests.

Injection & Compression Molding:

Parker's Medical Systems Division has complete capabilities to mold horizontal and vertical high consistency silicone and organic rubber through injection & compression molding methods.



Flashless Transfer Molding:

With press sizes up to 500 tons, Parker's Medical Systems Division provides extensive capabilities for medium to high-volume silicone and organic rubber Flashless Transfer Molding with proprietary high-cavitation tooling.

Custom Compounding:

MSD offers custom compounds for molded components per our customer's specific requirements in the following materials:

- Silicone
- EPDM
- Nitrile
- Organics
- Polyisoprene

Prototype & Production Tooling:

Parker's Medical Systems Division offers prototype and production tooling capabilities.

Medical Device Assembly and Secondary Operations:

We offer extensive Molding and Medical Device Assembly capabilities in certified Class 100,000 Cleanrooms.

- Sterile/purified water per USP standards
- Cryogenic deflashing
- Chlorination
- Custom packaging
- Die cutting
- Mechanical assembly
- Parylene coating
- Plasma etching



Quality Assurance:

Parker's Medical Systems Division operates under a fully documented quality assurance system per ISO 9001:2000 standards. We follow a strict mold validation protocol as well as all customer specifications and requirements.

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