

Ophthalmic Solutions

Freudenberg Medical partners with ophthalmic device companies all over the world to manufacture an array of products ranging from implantable components to surgical equipment used in the operating room. With our wide spread expertise, we are equipped to engage in projects of diverse technical difficulty. Our engineering teams have experience in the design & development of technology in devices for

- Dry eye therapies
- Glaucoma treatment and drainage
- Corrective cataract and other ocular surgery
- Drug delivery systems



Freudenberg Medical offers specialized micro-molding and extrusion services to medical OEMs. Our micro-scale products include silicone molded components, weighing as little as .004g, and extruded implantable silicone tubing, scaling as small as .006" ID.

Silicone Molding for dry eye therapies and surgical tools

- Liquid injection molding (LIM), transfer/compression molding, micro-molding, insert molding, over-molding, and two-shot molding – silicone to thermoplastic
- Expertise in short- and long-term implantable silicones (LSR and HCR)
- Thin-wall silicone molding

Silicone Extrusion for long-term implantable and drainage devices

- Extrusion sizes from .006" ID to 1.5" OD
- Multi-lumen extrusion (up to 9) and co-extrusion
- Striping capabilities for part identification, x-ray opacity, or other needs

Thermoplastic Molding for ophthalmic surgery and implantable devices

- Insert and vertical insert molding over a wide range of materials
- Two-shot molding – silicone to thermoplastic
- Implantable components in thermoplastics and PEEK

Our broad range of services allows us to tackle projects that require multiple steps and manufacturing processes all under one roof. We effectively utilize our resources to ensure that we deliver the best possible solution to our customers. Our customers trust that we have the molding and extrusion expertise to meet their exacting demands.

