



## Insert Molding

### Applications: All Medical Devices

Lubrizol's tight-tolerance molding solutions optimize the clinical outcome of silicone insert molding applications for the medical device industry.

### A Cost-Effective Option

Lubrizol's insert molding capabilities provide medical device engineers with an effective manufacturing option to eliminate costly device assembly steps, additional inspection and testing activities. Our insert molding solutions also help design engineers achieve or enhance device functional requirements.

### Alternative to Bonding and Manual Assembly

Insert molding is a secondary manufacturing process involving a molded feature that is added to a previously manufactured component rather than utilizing alternative manual bonding or assembly methods.

### State of the Art Tooling

Lubrizol designs and operates with state-of-the-art tooling built to accommodate the complex geometries necessary for superior insert molded device components. Lubrizol utilizes proprietary and industry-leading processes to achieve tight manufacturing tolerances and ensure compliance with production capability requirements.

## High-Quality Insert Molding

Our experienced team specializes in a variety of insert molding process techniques to deliver the highest-quality product possible. Our expertise includes:

- High bond strength
- Experience with restricted, unrestricted and compounded materials
- Numerous shapes and sizes
- Tight wall tolerances  $\pm 0.002"$  (0.050 mm)
- Extruded components to molded components
- Molded components to molded components
- Plastic components to silicone components
- Steel components to silicone components
- Cavitation to fit your budget and volume requirements



About Lubrizol Life Science - Lubrizol partners with customers to speed their innovative medical devices and differentiated pharmaceutical products to market. Our dedicated team provides best-in-class polymers and excipients, along with state-of-the-art product design, development, and manufacturing services, with the ultimate goal of creating solutions that improve patient outcomes. For more information visit [www.lubrizolmeddevicecm.com](http://www.lubrizolmeddevicecm.com).