Silicone elastomers for medical device applications

Application and product overview
The past few decades have brought extensive advances in medical care. New and innovative technologies have helped find unprecedented ways to fight disease. Many of these technologies are the result of a visionary expansion in materials.

The diversity and versatility of DuPont™ Liveo™ healthcare silicone elastomers help manufacturers of medical implants and devices around the world create innovative products to address critical medical needs. These silicone elastomers are suitable for a wide variety of medical device applications:

- Short-term and long-term implanted devices
- Medical/diagnostic devices and components
- Non-implant external devices

Liveo™ silicone elastomers can help meet your need for quality, reliability and dependable performance:

- Biocompatible, and FDA food grade compliant
- Consistent from batch to batch
- Available in a broad range of Shore A hardnesses
- Sterilizable (e.g., autoclave, gamma irradiation)
- Do not contain organic plasticizers, phthalates or latex additives
- Solventless, pigmentable and non-blooming in platinum catalyzed system, with high gas permeability compared to most other thermoset elastomers and thermoplastics
DuPont offers a broad range of uncatalyzed and platinum catalyzed silicones designed for the fabrication of medical devices and device components.

Use this overview as one of the first steps to help you find the most suitable material for your application.

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**Liquid silicone rubber (LSR)**

products are pumpable thermoset silicone elastomers that can be processed by molding equipment. Their relatively low viscosity makes them ideal for intricate designs and close-tolerance parts.

**High consistency rubber (HCR)**

products are millable thermoset silicone elastomers that can be extruded continuously to form a desired size and shape before curing, e.g. silicone tubing.
How can we help you today?

DuPont™ Liveo™ silicone elastomers for medical device applications are dedicated to meeting your needs for specialty materials and are provided with innovative support.

Our rubber formulating experience and fabrication expertise, plus local market knowledge and collaborative problem solving help you make an informed choice.

Meeting your quality and regulatory needs

Our long-term experience in healthcare gives us broad expertise with global regulatory requirements. Depending on your need or application, you can call on our worldwide network of technology centers, our Product Stewardship organization, as well as our team of Product Safety and Regulatory Compliance specialists. We can provide material from an ISO-certified site or an FDA-registered facility to the appropriate level of GMPs. You can also benefit from our regulatory support that includes Pharmacopeial Certification, Drug Master Files, Material Application Files or Technical Files for select materials.

Meeting your safety needs

We are committed to ensuring that our products and services are safe and effective to use.

Silicones are one of the most extensively biotested materials used in the healthcare industry.

All Liveo™ silicone elastomers for medical device applications are manufactured to ISO 9001 quality standards in accordance with the practices of Responsible Care® (ISO 14001).

DuPont has adopted the American Chemistry Council’s Responsible Care program, which helps manage environmental, health and safety issues that could affect you.

To learn more about DuPont’s healthcare solutions visit: www.dupont.com/healthcare.html

For country-level information, visit: www.dupont.com/corporate-functions/our-company/global-locations.html