Productivity  efficiency  versatility.

Liquid silicone rubber (LSR) evolved from a very specific need: to produce silicone rubber parts more efficiently and economically. Silastic® brand LSRs from Dow Corning do just that. These two-part, pumpable silicone materials are mixed and rapidly heat-cured to form elastomeric rubber components.
LSRs are available in viscosities from thin, flowable liquids to soft pastes, and can be pigmented in a wide array of colors. They can be used for liquid dispensing, including pouring, extrusion and fabric coating. Special additives can be used for specific design or performance requirements.

Because Silastic LSRs flow easily into the most complex mold cavities, they are ideal for intricate designs and close-tolerance parts. They can be automatically metered, mixed and dispensed – cutting cycle times from minutes to seconds when compared with conventional silicone rubbers (HCRs). The result is simplified processing and reduced production costs.

With their excellent as-molded physical properties, post curing of LSRs is usually unnecessary. Because they can be held to close tolerances with little wasted material, there is rarely a need for deflashing. Essentially the entire operation can be automated to increase output rates and reduce production costs.

**Premium performance starts with superior physical properties**

Silastic LSRs offer the same key physical properties as Silastic HCRs – including excellent resistance to weathering, to extreme temperatures and to aging – making them ideal for applications in which long-term flexibility and longevity are important.

Parts molded from Silastic liquid silicone rubbers also have outstanding electrical properties, and some materials are formulated to meet specific UL, FM and/or NEC standards. And because they can be molded in a contamination-free environment, Silastic LSRs are also a first choice for rubber components in food handling equipment and other applications that call for materials that meet FDA 21 CFR 177.2600 and the BgVV XV food contact requirements.

Select from our wide product range:

- Translucent
- Fast curing
- Self-lubricating
- Oil resistant
- Fabric coating/sleeving

… and several other specialty types.

**Which products might benefit from Silastic LSRs?**

Silastic LSRs are used in a myriad of industries, from automotive, aerospace and high-voltage insulation to recreation and baby care. The applications are virtually limitless:

- Photocopier rollers
- High-voltage insulators
- Keypads
- Anode caps
- Connector seals
- Diaphragms & valves
- Hoses
- O-rings, gaskets & seals
- Diving masks and snorkels
- Baby bottle nipples and pacifiers

**Contact our local sales or technical service experts to discuss your needs.**

**Silastic LSR features:**
silicone rubber technology and state-of-the-art equipment is evidence of our long-term commitment to serving your needs.

Let us assist you with:
- New material development
- Processing techniques
- Calibration of equipment
- Mold design evaluation

With more than 50 years of silicone experience, the technology base at Dow Corning includes 1500 active US patents, more than 5000 product formulations and a global silicone R&D database, as well as extensive analytical equipment and capabilities. In short, we deliver the highest quality materials coupled with the global collective knowledge of silicone rubbers experts worldwide to meet your company’s needs.

Robotic dispensing of gaskets and sealing systems is another excellent fit for Silastic LSRs. This efficient production method helps cut labor costs, increase processing speeds and typically decreases the amount of floor space needed for production. Materials for cure-in-place gasketing (CIPG), mold-in-place gasketing (MIPG) and dispensed foam sealing systems are available from Dow Corning.

Total global capabilities with local service support

When you team up with Dow Corning, you receive nothing short of total system support. From material and pigment selection through part finishing, we are able to answer your tough questions.

We offer you seamless, global capabilities delivered to meet your local needs. Technical support and customer service are available around the globe, including testing and certification to help meet industry or customer requirements. Our continued investment in liquid silicone rubber technology and state-of-the-art equipment is evidence of our long-term commitment to serving your needs.
Enclosed in this brochure you will find our *Silastic* liquid silicone rubber product selection guide, with data on general purpose (GP) products, as well as materials that meet very exacting application requirements, such as oil resistance or food contact uses. If there is something you need that is not represented here, give us a call. Chances are we are already working on it, or can modify an existing formulation to satisfy your application needs.

For more information on the benefits of *Silastic* liquid silicone rubber – or to obtain a mold design guide for LSRs – call your nearest Dow Corning representative, or visit us on the Web at [www.dowcorning.com](http://www.dowcorning.com). Technical brochures and product data sheets are available on the complete product line.

**It comes down to having the silicone rubber materials and technical support that customers need**

The most important thing we offer our customers is responsiveness to your global needs, and the ability to provide you with the most comprehensive silicone rubber expertise available anywhere.

This selector guide is one of three that cover Dow Corning’s full line of silicone rubber products. Feel free to request the other two:

- **Silastic Silicone Rubber Bases**
  Includes our full range of bases and modifiers for compounding. Bases are available in GP grades with hardnesses ranging from 20 to 80 Shore A durometer. It also includes high-strength, low-temperature and conductive materials. Request form no. 45-1007-01 for information on our *Silastic* silicone rubber bases.

- **Silastic Fluorosilicone Rubber**
  Covers materials uniquely suited for contact with jet and automotive fuels, engine oils and most solvents. Request form no. 45-1005-01 for information on our product line.
Find out more about Silastic Liquid Silicone Rubber

www.dowcorning.com

More information on our family of Silastic liquid silicone rubbers is available online at www.dowcorning.com. Find out about product applications, processing methods and the latest industry news – all from your desktop.

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