

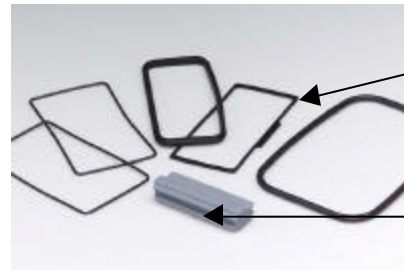


# STOCKWELL RUBBER COMPANY, INC.

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## Injection Molded Silicone Rubber With Fluoropolymer Coating For Low Friction and Biocompatibility



SR100 07/2003

Seals as small as .030" cross-section are evenly coated

Deep undercuts are evenly coated

Molded Gaskets with .00010" thick coating provide non-tack surface without sacrificing elastic properties.

*Stockwell Rubber Company has teamed up with E/M Corporation to provide Silicone Rubber Molded Components with Insulcote P fluoropolymer coating!*

### Why Use Silicone Rubber With Fluoropolymer Coating?

Liquid Silicone Rubber (LSR) is often specified for small gaskets and sealing components in Portable Communications Equipment, Battery Packs and Medical Diagnosis Devices. One drawback of LSR is its high tack, which can make assembly and disassembly of housings difficult if the silicone seal tends to catch, stick, and roll out of the sealing groove.

Stockwell Rubber Company molds and de-flashes silicone components, then sends to E/M Corporation to apply a conformal, .00005" to .00010" thick coating in such consistency that every surface – including deep undercuts and interior features are coated. The Insulcote P surface will withstand up to 25% elongation during installation without breaking the fluoropolymer barrier. We would only recommend LSR designs with Insulcote P coating for static seals and bushings, rather than dynamic applications such as flexing diaphragm.

### Why Use Silicone Rubber?

Silicone Rubber has the combined properties of resilience, high temperature stability and general inertness unavailable in any other elastomer. Silicones are generally unaffected by extended exposure to temperatures from -100°F to 500°F, and are also unaffected by aging and degradation from sunlight and ozone.

### How To Get Started?

We offer design assistance! Feel free to send a preliminary sketch for evaluation and feasibility review. Or send your electronic file (dxf or dwg formats preferred – or IGES or Pro-E). We will review the design to determine compatibility with our LIM system and submit a proposal including any design recommendations that may save tooling cost and reduce unit pricing.

**Liquid Silicone Rubber (LSR) Compounds Available from Stockwell Rubber Company :**

Stockwell LSR Compound	Durometer Shore A	Tensile Strength, psi	Elongation at Break, %	Tear Strength PPI of Width	Compression Set, % (22 hrs @ 158°F)	General Characteristics
SE2020	20	725	900	55	<5	Soft, specified for seals with minimal closure force.
SE2030	30	1085	800	85	<5	Mechanical Grade
SE2040	40	1230	850	140	<5	Mechanical Grade, meets UL94HB
SE2050	50	1230	700	170	<5	Mechanical Grade, meets UL94HB
SE2060	60	1300	500	170	<5	Mechanical Grade, meets UL94HB
SE2070	70	1230	400	170	<5	Mechanical Grade

Call us to find out more or e-mail us at [service@stockwellrubber.com](mailto:service@stockwellrubber.com) for assistance.