



# STOCKWELL ELASTOMERICS, INC.

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## Molded Silicone Rubber – available in many color options!



SR94 01/2003

Flat and fluorescent colors available.

*We are teamed up with a specialty pigment supplier to provide molded Silicone Rubber Components in a broad spectrum of colors.*

Injection Molded Silicone Rubber components can be supplied red, blue, yellow, or others.

Generally, designers consider TPR or similar thermoplastic materials when colors other than black or gray are required in an elastic component. However, combining the consistent processing of LSR (liquid silicone rubber) with the capabilities of our pigment suppliers – Stockwell Elastomerics can provide flexible silicone rubber gaskets, covers, and custom components in colors.

### 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. Now, with ever improving LSR (liquid silicone rubber) technology, fast cures are possible – enabling reductions in unit costs that allow for silicone rubber components costing less than the same design\* in traditional organic neoprene or EPDM compounds. Portable Electronic items, such as ‘ruggedized’ hand-held computing devices and data acquisition devices can be made more drop-proof by using silicone rubber, as full resiliency is maintained over a -70°F to 450°F temperature range – greater than traditional shock isolation and gasketing materials.

### How To Choose a Color?

Providing colored LSR molded components, begins with selecting a color. Send a sample or advise us of the PMS number. If we already have a close match – your set up is minimal. If we do not have an existing match, we will send lab samples in molded silicone for you to consider. When a match is made, the initial set up will be approximately \$1500.00 for the initial order – which includes the pigment and the mixing and the dispensing hardware. These items will remain stored for your future requirements, and can be used interchangeably on other molded designs incorporating the same color.

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

| 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  |
|------------------------|-------------------|-----------------------|------------------------|----------------------------|-------------------------------------|--|
| SE2010                 | 10                | 400                   | 500                    | 30                         | <10                                 | Very soft, for low pressure gaskets with minimal closure force |
| SE2020                 | 20                | 725                   | 900                    | 55                         | <5                                  | Soft, 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   |

\*Although silicone rubber costs more than traditional organic rubber compounds, the faster cure cycles reduce press time. Savings are more typical with small gaskets and seals requiring less material.

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