



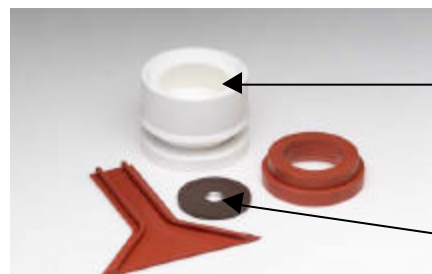
STOCKWELL ELASTOMERICS, INC.

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Molded FDA Conforming Silicone Rubber Gaskets and Heat Sealing Cushions

Stockwell Elastomerics has Silicone Rubber Compounds to provide gaskets and seals to support food and pharmaceutical processing and packaging!



SR98 01/2002

FDA Silicone
Coupling Seal

Thermally
Conductive Silicone
Molded onto
Aluminum Insert

Compression Molded FDA
Silicones withstand repeated
high temperature cycling in
heat sealing.

Why Use Silicone Rubber for Seals?

Silicone Rubber Compounds can be compounded with FDA conforming ingredients. Silicone Elastomerics is often specified for Gaskets and Seals used on Food & Drug Processing Equipment – due to its 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.

Thermally Conductive Silicone

Silicone Rubber Compounds readily accept additives such as thermally conductive particles and special pigments. Certain additives enhance properties such as thermal conductivity, and this ability to transfer heat through a compressible component makes silicone pressure pads a good choice for heat sealing systems. Silicone generally resists sticking to melted plastics and most adhesives – allowing repeated cycling in automated heat sealing equipment.

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 submit a proposal including any design recommendations that may save tooling cost and reduce unit pricing. If requested, we can include a small sample of the proposed compound with our bid.

Comparative Properties of Thermally Conductive Silicones

Stockwell Compound	Durometer (Firmness)	Thermal Conductivity W/mK	Color
TC100	65 duro, Shore A	1.37	Light Blue
TC188	80 duro, Shore A	.62	Dark Brown
TC108	80 duro, Shore A	.54	Dark Red
TC166	60 duro, Shore A	.34	Dark Brown

Comparative Properties of Selected FDA* Silicone Compounds

Stockwell Compound	Durometer (Firmness)	Tensile, psi	Elongation, %	Color
785365	30 duro, Shore A	1200	400	Gray
785375	40 duro, Shore A	1000	300	White
785456	55 duro, Shore A	1000	500	Gray
785500	70 duro, Shore A	900	150	Red

* These silicones are compounded with FDA conforming ingredients.

Call us to find out more or e-mail us at service@stockwell.com for assistance.