



STOCKWELL ELASTOMERICS

MANUFACTURING SOLUTIONS THROUGH ENGINEERED MATERIALS

Related Web Page:

<https://www.stockwell.com/solid-silicone-sheet/>

Stockwell Value Proposition:

Design & Engineering - Staff engineers comprehend design challenges and are available to help select materials and manufacturing processes that best fit your application needs.

Material Solutions - Stockwell Elastomerics has strategically partnered with industry leaders such as Rogers Corp., Saint-Gobain, 3M, Wacker Silicones and Momentive Silicones to ensure the highest quality materials are used. Stockwell Elastomerics has a comprehensive inventory of engineered materials designed and manufactured to meet requirements of the most demanding gasketing applications.

Pre-Production through Manufacturing - Combining in-house CNC die cutting, waterjet cutting, injection molding, compression molding and adhesive lamination with comprehensive inventory, Stockwell Elastomerics can fulfill fast-turn prototyping, pre-production and full production requirements.

SG-300 to SG-700 Molded Silicone Sheet Series

Compound: Gum Based Peroxide Cured Solid Silicone

Product Description:

This Specification Grade (SG) Molded Silicone Sheet Series fills a need for 36" x 36" sheets in thicker gauges. The silicone is compounded with iron-oxide pigment, molded flat and post cured for 4 hours at 450°F to improve service in high temperature applications such as heat sealing, annealing and other high temperature uses.

Other suppliers previously made .375" and .500" thick sheets that were produced on a rotocure, and the resulting cured silicone had a noticeable curl. SG-300 to SG-700 sheets offered by Stockwell Elastomerics are molded flat to best serve the intended use.

Property	Test Method	SG-300	SG-400	SG-500	SG-600	SG-700
Durometer, Shore "A"	ASTM D2240	30	40	50	60	70
Tensile Strength, psi	ASTM D412	850	900	900	700	750
Tear Strength	ASTM D624	40	80	75	50	65
Elongation, max %	ASTM D412	500	500	400	200	160
Compression Set: %, 70 hours at 302 °F	ASTM 395	15	15	15	20	20
Dielectric Strength: volts/mil	-	500	500	500	500	500
Thermal Conductivity: BTU, in/(h ft² °F)	-	1.3	1.3	1.3	1.3	1.3
Temperature Low, °F	-	-100	-100	-100	-100	-100
Temperature High, °F	-	500	500	500	500	500
Color	-	Red	Red	Red	Red	Red
Available Configurations	Thicknesses: 0.375" ± .047" and 0.500" ± .047" Sheets: 36" x 36" Cut Parts: Waterjet / Die Cut Adhesive Backed					

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