



TECHNICAL DATA SHEET

SG Molded Silicone Series

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Material Description | SG-300 to SG-700 Molded Silicone Sheet Series

Compound: Gum Based Peroxide Cured Solid Silicone

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.

SG-300 to SG-700 Material Details

Typical Values*

	SG-300	SG-400	SG-500	SG-600	SG-700	Test Method
Durometer Shore "A"	30	40	50	60	70	ASTM D2240
Color	Red	Red	Red	Red	Red	
Temperature Low	-100°F	-100°F	-100°F	-100°F	-100°F	
Temperature High	500°F	500°F	500°F	500°F	500°F	
Elongation, max %	500	500	400	200	160	ASTM D412
Tear Strength, ppi	40	80	75	50	65	ASTM D624
Dielectric Strength: volts/mil	500	500	500	500	500	
Thermal Conductivity: BTU, in/(h ft ² °F)	1.3	1.3	1.3	1.3	1.3	
Compression Set, %, 70 hours at 302 °F	15	15	15	20	20	ASTM 395
Tensile Strength, psi	850	900	900	700	750	ASTM D412
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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