



TECHNICAL DATA SHEET

SG Solid Silicone Series

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Material Description | Specification Grade General Purpose Solid Silicone

Compound: HCR (High Consistency Rubber), Gum Based Specification Grade Solid Silicone Sheetting

SG Series general purpose solid silicone is an ideal material for gasketing, sealing, and cushioning applications in high temperatures or extreme environments. This robust yet flexible material can conform to surfaces creating weather tight seals with moderate deflection forces. It is available in thicknesses from 0.020" to 0.375" and durometers from 30A (soft) to 70A (very firm). SG Series solid silicone in all five durometers is stocked and immediately available in red; black or gray are also available upon request.

Stockwell Elastomerics can provide this material "plain", or with a variety of high performance acrylic adhesives or silicone adhesives. It is available in sheet, roll, slit-to-width, or cut-to-shape configurations.

Applications

Precision Instrumentation, Commercial Lighting, Analytical Instrumentation, Electronics Sector, Aerospace, Airflow Management, other general-purpose silicone applications.

Properties

- Extreme low (-80°F) and high temperature (450°F) resistance (up to 500°F intermittently)
- Low compression set and stress relaxation compared to other solid elastomers
- Dielectric barriers
- UV / ozone resistant
- FDA 21 CFR 177.2600
- Specifications: A-A-59588 2A/2B, (formerly ZZ-R-765 2A/2B), ASTM D2000, AMS3301, AMS3302, AMS3303, and AMS3304

Material Details

Typical Values*

	SG-30 GP	SG-40 GP	SG-50 GP	SG-60 GP	SG-70 GP	Test Method
Durometer Shore "A"	30	40	50	60	70	ASTM D2240
Elongation, %	750	700	550	500	325	ASTM D412
Tear Strength, ppi die "B"	75	110	125	150	130	ASTM D624
Tensile Strength, psi	725	800	850	800	800	ASTM D412

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