



## Redco™ CG-SS80

### TECHNICAL DATA SHEET

Commercial Grade silicone sheeting is designed to be used in applications where physical properties are not critical but extreme temperature resistance and reliable performance are still needed.

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 -75° up to +232°F and are also resistant to aging and degradation from sunlight and ozone. Silicone is a polysiloxane chain. Unlike other rubbers, its molecular matrix does not contain carbon, but consists of silicone and oxygen atoms. It can be formulated to achieve flame resistance, electrical or thermal conductivity, electrostatic dissipative (ESD) as well as FDA and medical compliance.

**FORMAT:** Sheet and Strips from 0.10" to 1" thick. Both plain and with PSA adhesive backed.

**COLOR:** Red-Orange

**DUROMETER:** 80A

(25A to 70A on request)

**DESIGNATION:** PVQ, PVM, SE  
(Polysiloxane Elastomer)

## TYPICAL APPLICATIONS

- ▶ High temp seal and gaskets
- ▶ Wipers & squeegees
- ▶ Electrical Insulators
- ▶ FDA approved applications
- ▶ Digital print roller covers
- ▶ O-rings

### CORE ADVANTAGES:

- ▶ Exceptional high & low temperature resistance
- ▶ Unaffected by ozone, weather and UV radiation
- ▶ Good electrical insulator
- ▶ Self-extinguishable
- ▶ Maintains a stable shore hardness and consistent physical properties through wide temperature range



**Weather  
Resistant**



**UV Resistant**



**Ozone Resistant**



**Fire Resistant**



**Steam Service**



**Corrosion  
Resistant**

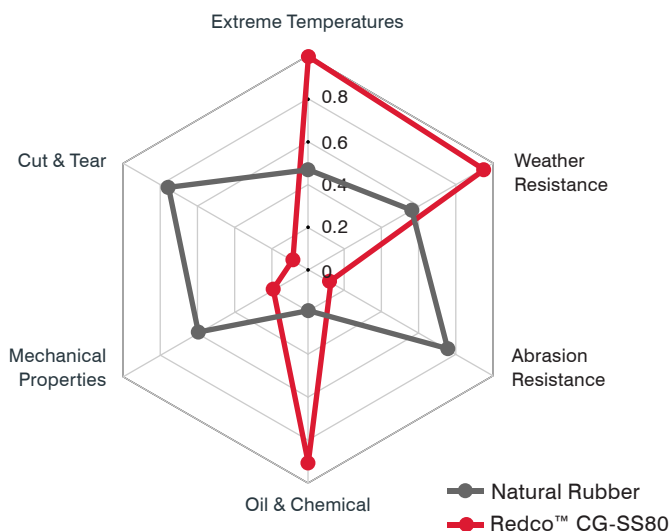


**Extreme  
Temperature  
Range**

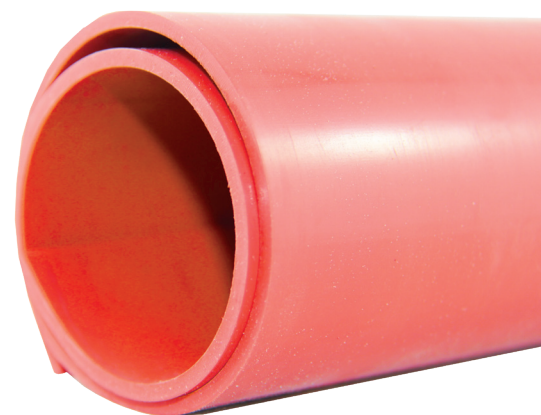
# Redco™ Commercial Grade Solid Silicone Rubber

## Technical Data Sheet

PROPERTY	SPECIFICATION	UNIT	TYPICAL VALUE
Color			Orange/Red
FDA Food Safe		Yes	
Durometer (Hardness)	ASTM D 2240	Shore "A"	80 +/- 7
Tensile Strength	ASTM D 412	PSI	880 nom.
Tensile Elongation	ASTM D 412	%	300
Compression Set	ASTM D 395 - Method B	%	10
Accelerated Aging 70 hrs @ +100°C @ 30% RH			
Hardness	ASTM D 1056	Shore "A"	+/- 2 max.
Tensile Strength	ASTM D 1056	% Δ	+35% max.
Tensile Elongation	ASTM D 1056	% Δ	+30% max.



Unless otherwise stated, all Redco sheet rubber is provided to standard RMA Rubber Tolerances.



## CHEMICAL RESISTANCE

COMPOUND	RESULT
Acid	Limited in dilute
Alkali	Limited in dilute
Gas & Oil	Good
Aromatic Hydrocarbons	Poor
Ketones	Poor
Chlorinated Solvent	Poor
Steam	Good
Oxidation	Excellent
UV	Excellent
Ozone	Excellent

**ASK US** about our custom cutting, stamping and fabricating services. All sheet rubber products are available in many formats, including:

- ▶ Full rolls
- ▶ Blocks
- ▶ Sheets
- ▶ Custom-fabricated
- ▶ Cut- to-size strips
- ▶ Die-cut parts

Redwood Plastics and Rubber offers a quick-ship process for in-stock sheet orders in as little as 24 hours if required.