

SILICONE RUBBER PRODUCTS

Types of Silicone Rubber

- Commercial Grade Silicone
- Mil Spec Grade Silicone
- FDA (Food Grade) Silicone
- Fiberglass Reinforced Silicone
- Conductive Silicone
- Fluorosilicone
- Coated Fabrics Silicone Sheet
- Medical Grade Silicone (USP Class 6)
- Extreme High Tear Silicone
- Silicone Sponge
- Extreme High Temperature Silicone
- Fabric Finish Silicone
- Flame Retardant Silicone



SILICONE RUBBER – COMMERCIAL GRADE

DESCRIPTION:

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

Applications

- High & low temperatures environments
- Outdoors
- Electrical insulation
- Environmental insulation



Features and Benefits

- Extreme temperature resistance
- Excellent ozone and weather resistance
- Good compression set characteristics
- Radiation resistance

Availability

- Continuous roll or sheet
- Thickness: 1/64" to 1"
- Widths: Up to 60"
- Color: Orange

Method of Application

A Pressure Sensitive Adhesive (PSA) backing and/or mechanical fasteners.

Property	Results/Range
Thickness	1/64" through 1"
Color	Orange
Temperature Range	-80 to +450°F
Durometer Range	30-70 Durometers
Tensile Range	600-650 PSI
Ultimate Elongation	275-500%

SILICONE RUBBER – COMMERCIAL GRADE

Durometer Hardness Shore A ±5
30
40
50
60
70



WHEN REQUESTING A QUOTE, PLEASE SPECIFY DUROMETER - EXAMPLE: SDS-12536-60-CSIL

Thickness	PART NUMBER: 36" WIDE	PART NUMBER: 48" WIDE
1/32"	SDS-03236-XX-CSIL	SDS-03248-XX-CSIL
1/16"	SDS-06236-XX-CSIL	SDS-06248-XX-CSIL
3/32"	SDS-09336-XX-CSIL	SDS-09348-XX-CSIL
1/8"	SDS-12536-XX-CSIL	SDS-12548-XX-CSIL
3/16"	SDS-18736-XX-CSIL	SDS-18748-XX-CSIL
1/4"	SDS-25036-XX-CSIL	SDS-25048-XX-CSIL
3/8"	SDS-37536-XX-CSIL	SDS-37548-XX-CSIL
1/2"	SDS-50036-XX-CSIL	SDS-50048-XX-CSIL

Other, special thicknesses available, [contact San Diego Seal](#).

PRE-FABRICATED GASKETS ARE AVAILABLE

- COMMERCIAL DRILL
- NAVY DRILL
- RING
- CUSTOM



SAN DIEGO SEAL, INC.

7635 RONSON ROAD • SAN DIEGO, CALIFORNIA 92111

TEL: 858-278-3270 • FAX: 858-278-2950

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SILICONE RUBBER – SPEC GRADE

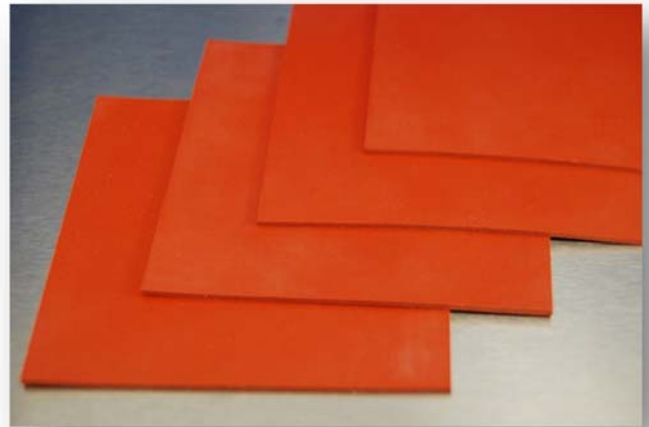
Spec Grade Silicone sheeting is designed to be used for performance applications where higher physical properties and lower compression set are required. It provides extreme temperature and ozone resistance, which makes it a resilient material ideal for automotive or electronic applications. Our silicone sheeting is an excellent gasketing material available from 30-70 durometer

Applications

- High & low temperatures environments
- Outdoors
- Electrical insulation
- Environmental insulation
- High physical properties
- Lower compression set

Features and Benefits

- Extreme temperature resistance
- Excellent ozone and weather resistance
- Good compression set characteristics
- Radiation resistance



Availability

- Continuous roll or sheet
- Thickness: 1/64" to 1"
- Widths: Up to 60"
- Color: Orange

Available with Pressure Sensitive Adhesive (PSA) backing

Property	Results/Range
Thickness	1/64" through 1"
Color	Orange
Temperature Range	-80 to +500°F
Durometer Range	30-70
Tensile Range	750-900 PSI
Ultimate Elongation	400-800%

Specifications: ZZR-765 CL2A, ZZR-765 CL2B, A-A-59588 CL2A
A-A-59588 CL2B, AMS3302, ASTM D2000

SILICONE RUBBER – SPEC GRADE

Durometer Hardness Shore A ±5
30
40
50
60
70



WHEN REQUESTING A QUOTE, PLEASE SPECIFY DUROMETER - EXAMPLE: SDS-12536-60-SIL-SP

Thickness	PART NUMBER: 36" WIDE	PART NUMBER: 48" WIDE
1/32"	SDS-03236-XX-SIL-SP	SDS-03248-XX-SIL-SP
1/16"	SDS-06236-XX-SIL-SP	SDS-06248-XX-SIL-SP
3/32"	SDS-09336-XX-SIL-SP	SDS-09348-XX-SIL-SP
1/8"	SDS-12536-XX-SIL-SP	SDS-12548-XX-SIL-SP
3/16"	SDS-18736-XX-SIL-SP	SDS-18748-XX-SIL-SP
1/4"	SDS-25036-XX-SIL-SP	SDS-25048-XX-SIL-SP
3/8"	SDS-37536-XX-SIL-SP	SDS-37548-XX-SIL-SP
1/2"	SDS-50036-XX-SIL-SP	SDS-50048-XX-SIL-SP

Other, special thicknesses available, [contact San Diego Seal](#).

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SILICONE RUBBER – FDA GRADE

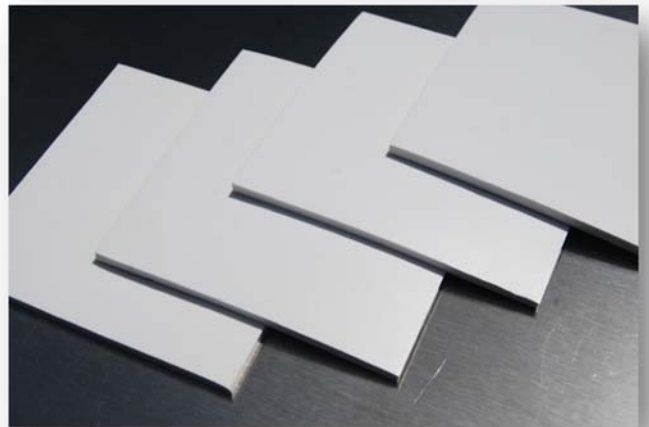
“FDA Grade” Silicone sheeting is designed to be used in a variety of food- and health-related applications. It is low volatile and peroxide free, and does not discolor over time. The ingredients used to make this product are listed in CFR177.2600. This FDA regulation deals with rubber articles intended for repeated use in contact with food. This material is ozone and UV resistant, and it is an excellent gasketing material for use in food or pharmaceutical processing. Call customer service for many other variations of this material.

Applications

- High & low temperatures environments
- Outdoors
- Electrical insulation
- Environmental insulation
- Food contact

Features and Benefits

- Extreme temperature resistance
- Ozone resistance
- Good compression set characteristics
- Radiation resistance
- CFR 177.2600 listed ingredients



Availability

- Continuous roll or sheet
- Thickness: 1/64" to 1"
- Color: White

Available with Pressure Sensitive Adhesive (PSA) backing

Property	Results/Range
Thickness	1/64" through 1"
Color	White
Temperature Range	-80 to +450°F
Durometer Range	30-60 Durometers
Tensile Range	600-700 psi
Ultimate Elongation Range	350-500%

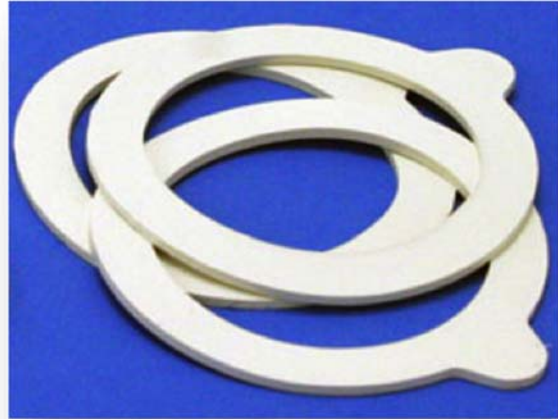
Additional Specification: 21 CFR 177.2600 / ASTM D2000

3-A SANITARY STANDARD 18-03 CLASS IV (60A DURO ONLY)

Specifications: AMS3320 / AMS3315

SILICONE RUBBER – FDA GRADE

Durometer Hardness Shore A ±5
30
40
50
60



WHEN REQUESTING A QUOTE, PLEASE SPECIFY DUROMETER - EXAMPLE: SDS-12536-60-SIL-FDA

Thickness	PART NUMBER: 36" WIDE	PART NUMBER: 48" WIDE
1/32"	SDS-03236-XX-SIL-FDA	SDS-03248-XX-SIL-FDA
1/16"	SDS-06236-XX-SIL-FDA	SDS-06248-XX-SIL-FDA
3/32"	SDS-09336-XX-SIL-FDA	SDS-09348-XX-SIL-FDA
1/8"	SDS-12536-XX-SIL-FDA	SDS-12548-XX-SIL-FDA
3/16"	SDS-18736-XX-SIL-FDA	SDS-18748-XX-SIL-FDA
1/4"	SDS-25036-XX-SIL-FDA	SDS-25048-XX-SIL-FDA
3/8"	SDS-37536-XX-SIL-FDA	SDS-37548-XX-SIL-FDA
1/2"	SDS-50036-XX-SIL-FDA	SDS-50048-XX-SIL-FDA

Other, special thicknesses available, [contact San Diego Seal](#).

PRE-FABRICATED GASKETS ARE AVAILABLE

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- RING
- CUSTOM



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SILICONE RUBBER – FIBERGLASS REINFORCED

Fiberglass-reinforced Silicone sheeting is available in two grades: “DSP1564” and “DSP7628”. Among other uses, this material is typically used for gaskets or seals requiring a resilient, non-porous high-temperature, flame-retardant silicone suitable for operating temperatures from -100 to 500°F. It is resistant to weathering and engine oil, and remains flexible over its temperature range. The fiberglass is centered between the two layers of silicone that gives the material dimensional stability and higher tensile strength.

Applications

- Gaskets and seals
- Applications requiring higher dimensional stability and tensile strength

Features and Benefits

- Extreme temperature resistance
- Ozone resistance
- Good compression set characteristics
- Radiation resistance
- Dimensional stability



Availability

- Continuous roll or sheet
- Thickness: 1/64" to 1"
- Color: Orange

Available with Pressure Sensitive Adhesive (PSA) backing

Property	DSP1564	DSP7628
Thickness	1/64" through 1"	1/64" through 1"
Tensile Strength, psi (Fiberglass+Silicone)	1300	1300
Fiberglass Thickness	0.014"	0.007"
Fiberglass Weight, (oz per sq yd)	12.5	6
Fiberglass Breaking Strength,(warp/fill) psi	400 x 350	250 x 200
Plain Weave Thread Count	20 X 18	44 x 32
Fiberglass Diaphragm Burst Strength, psi	750	400
Compression Set, max	35%	35%
Temperature Range	-100 to +500°F	-100 to +500°F

SILICONE RUBBER – FIBERGLASS REINFORCED



FIBERGLASS REINFORCED SILICONE COMES IN 70 DUROMETER HARDNESS

Thickness	PART NUMBER: 36" WIDE	PART NUMBER: 48" WIDE
1/32"	SDS-03236-SIL-FIB	SDS-03248-SIL-FIB
1/16"	SDS-06236-SIL-FIB	SDS-06248-SIL-FIB
3/32"	SDS-09336-SIL-FIB	SDS-09348-SIL-FIB
1/8"	SDS-12536-SIL-FIB	SDS-12548-SIL-FIB
3/16"	SDS-18736-SIL-FIB	SDS-18748-SIL-FIB
1/4"	SDS-25036-SIL-FIB	SDS-25048-SIL-FIB
3/8"	SDS-37536-SIL-FIB	SDS-37548-SIL-FIB
1/2"	SDS-50036-SIL-FIB	SDS-50048-SIL-FIB

Other, special thicknesses available, [contact San Diego Seal.](#)

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SILICONE RUBBER - ELECTRICALLY CONDUCTIVE

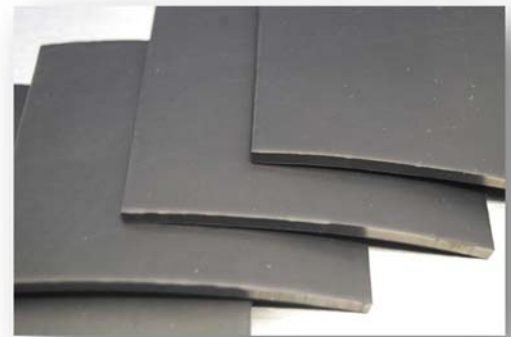
Electrically Conductive Silicone sheeting is designed to be used in many different military and industrial applications. It is a carbon black, thermally conductive, filled silicone that will act as a low amperage conductor, while also providing protection against electrostatic discharge.

Applications

- High & low temperatures environments
- EMI shielding gaskets
- Where conductive material is required

Features and Benefits

- Electrically conductive
- Provides protection against electrostatic discharge



Availability

- Continuous roll or sheet
- Thickness: 1/64" to 1"
- Color: Black

Available with Pressure Sensitive Adhesive (PSA) backing

Property	Test Method	Results/Range
Specific Gravity	ASTM D297	1.27 g/cc
Durometer, Shore "A"	ASTM D2240	65+/-5
Tensile Strength	ASTM D412	700 psi
Elongation	ASTM D412	200%
Tear	ASTM D624	80 psi Die "B"
Temperature Range		-65 to +500 °F
Volume Resistivity		6 ohms/cm

SILICONE RUBBER – ELECTRICALLY CONDUCTIVE



ELECTRALLY CONDUCTIVE SILICONE COMES IN 70 DUROMETER HARDNESS

Thickness	PART NUMBER: 36" WIDE	PART NUMBER: 48" WIDE
1/32"	SDS-03236-SIL-ELC	SDS-03248-SIL-ELC
1/16"	SDS-06236-SIL-ELC	SDS-06248-SIL-ELC
3/32"	SDS-09336-SIL-ELC	SDS-09348-SIL-ELC
1/8"	SDS-12536-SIL-ELC	SDS-12548-SIL-ELC
3/16"	SDS-18736-SIL-ELC	SDS-18748-SIL-ELC
1/4"	SDS-25036-SIL-ELC	SDS-25048-SIL-ELC
3/8"	SDS-37536-SIL-ELC	SDS-37548-SIL-ELC
1/2"	SDS-50036-SIL-ELC	SDS-50048-SIL-ELC

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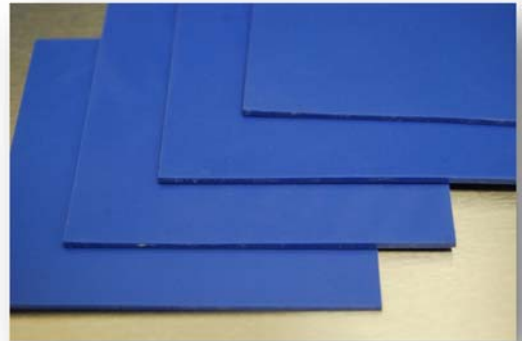


FLUROSILICONE

Fluorosilicone sheeting is designed to be used in conditions where extreme conditions exist. In addition to extreme temperature resistance, its resistance to chemicals such as oils and fuels makes it an ideal material for fuel delivery applications in the aerospace, automotive and defense industries. Our fluorosilicone sheeting is an excellent gasketing material available from 30-70 durometer. Call customer service for many other variations of this material.

Applications

- High & low temperatures environments
- Outdoors
- Electrical insulation
- Environmental insulation
- Where chemical resistance is needed



Features and Benefits

- Extreme temperature resistance
- Excellent ozone and weather resistance
- Good compression set characteristics
- Radiation resistance
- Chemical resistance, including excellent oil resistance

Availability

- Continuous roll or sheet
- Thickness: 1/64" to 1"
- Color: Blue

Available with Pressure Sensitive Adhesive (PSA) backing

Property	Results/Range
Thickness	1/64" through 1"
Color	Blue
Temperature Range	-80 to +500°F
Durometer Range	30-70 Durometers
Tensile Range	700-950 PSI
Ultimate Elongation	175-500%

FLUOROSILICONE

Durometer Hardness Shore A ±5
30
40
50
60
70



WHEN REQUESTING A QUOTE, PLEASE SPECIFY DUROMETER - EXAMPLE: SDS-12536-60-FSIL

Thickness	PART NUMBER: 36" WIDE	PART NUMBER: 48" WIDE
1/32"	SDS-03236-XX-FSIL	SDS-03248-XX-FSIL
1/16"	SDS-06236-XX-FSIL	SDS-06248-XX-FSIL
3/32"	SDS-09336-XX-FSIL	SDS-09348-XX-FSIL
1/8"	SDS-12536-XX-FSIL	SDS-12548-XX-FSIL
3/16"	SDS-18736-XX-FSIL	SDS-18748-XX-FSIL
1/4"	SDS-25036-XX-FSIL	SDS-25048-XX-FSIL
3/8"	SDS-37536-XX-FSIL	SDS-37548-XX-FSIL
1/2"	SDS-50036-XX-FSIL	SDS-50048-XX-FSIL

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