

Silicone RUBBER SHEET – White (FDA)

Product Overview

White FDA Silicone Rubber Sheet is a high-purity silicone elastomer formulated for applications requiring excellent temperature resistance, flexibility, and hygienic performance. Silicone rubber maintains its physical properties over an exceptionally wide temperature range, making it suitable for both high-temperature and low-temperature service.

This material offers excellent resistance to aging, oxidation, ozone, and UV exposure, along with good mechanical strength and electrical insulation properties. White FDA Silicone Rubber Sheet is commonly specified for food-contact, medical, pharmaceutical, and high-performance industrial applications where cleanliness and thermal stability are critical.



Material Specification

- **Polymer:** Silicone Rubber (VMQ)
- **Grade:** FDA Compliant
- **Colour:** White
- **Surface Finish:** Smooth on both sides
- **Temperature Range:** -50 °C to +200 °C

Standards & Compliance

White FDA Silicone Rubber Sheet is manufactured from a silicone compound formulated to comply with the requirements of **FDA 21 CFR 177.2600** for rubber articles intended for repeated contact with food.

Disclaimer: All information provided is based on typical material properties and is intended as a general guide only. Final material selection should be confirmed by the end user for suitability in the intended application.

In accordance with FDA 21 CFR 177.2600, finished rubber articles intended for food-contact service should be thoroughly cleaned prior to their initial use. Final suitability for specific food-contact applications, including operating conditions and cleaning procedures, remains the responsibility of the end user.

Key Features & Benefits

- FDA-compliant silicone rubber compound
- Excellent high- and low-temperature resistance
- Outstanding resistance to aging, oxidation, ozone, and UV exposure
- Good mechanical strength and flexibility
- Excellent electrical insulation properties
- Clean, non-marking white surface
- Suitable for hygienic and food-contact applications

Physical Properties

Property	Typical Value	Test Method
Specific Gravity	1.25 ± 0.05 g/cm ³	ASTM D297
Hardness	60 ± 5 Shore A	ASTM D2240
Tensile Strength	8 MPa	ASTM D412
Elongation at Break	600 %	ASTM D412
Compression Set (70 °C × 22 hrs)	40 %	ASTM D395

Values shown are typical and not intended for specification purposes.

Typical Applications

- Food and beverage processing equipment
 - Seals and gaskets for hygienic applications
 - Medical and pharmaceutical equipment
 - Electrical insulation components
 - High-temperature sealing applications
-

Disclaimer: All information provided is based on typical material properties and is intended as a general guide only. Final material selection should be confirmed by the end user for suitability in the intended application.

- General industrial applications requiring FDA-compliant silicone
-

Manufacturing & Cutting Capability

- Available in sheet form and custom-cut components
 - Suitable for CNC oscillating knife cutting
 - Die-cutting and precision cutting available
 - Custom gasket shapes, sizes, and thicknesses available
-

Storage & Handling

Store in a cool, dry place away from direct sunlight, ozone sources, oils, fuels, and extreme heat to maintain optimal service life.



Disclaimer: All information provided is based on typical material properties and is intended as a general guide only. Final material selection should be confirmed by the end user for suitability in the intended application.