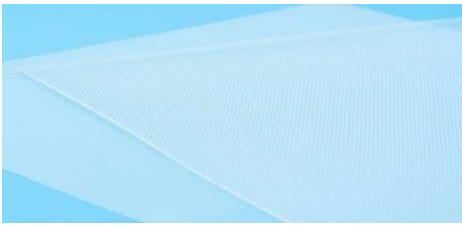


TWS Surgical Medical Grade Silicone Sheets



TWS Surgical Medical Grade Silicone Sheets are commonly used in surgical procedures for tissue reconstruction or as anti-adhesive barriers in Surgical, Orthopedic and Neurosurgery. **Their silicone products are not made with natural rubber latex and are used in various medical applications.**

TWS Surgical Medical Grade Silicone Sheets are a flexible, translucent, vulcanized, silicone elastomer material designed for medical and health-care applications.

TWS Surgical Medical Grade Silicone Sheets

-A flexible silicone elastomer material designed for a wide variety of medical procedures

-The Medical Grade Silicone Sheeting is available in different thicknesses of 3 product types, differing in their flexibility and strength.

Non-Reinforced - made from a medium durometer silicone elastomer and available in different thicknesses.

Reinforced - made from a medium durometer silicone elastomer reinforced with polyester fabric and available in different thicknesses.

Film- made from a high durometer silicone elastomer and available in different thicknesses.

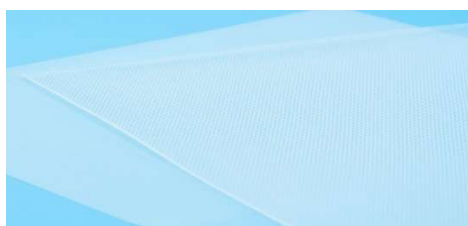


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128-160 City Road, London, EC1V 2NX, United Kingdom.

Email: info@twrightmedical.com

TWS Surgical Medical Grade Silicone Sheets



Advantages of TWS Surgical Medical Grade Silicone Sheets

includes:

- High degree of chemical inertness and bio compatibility.
- Easy to cut to size and shape.
- Reinforced sheeting minimizes stretching and allows suture attachment.
- Easy removal with minimal trauma.
- High permeability for gases.
- Autoclavable without significant changes in physical properties.

BIO COMPATIBILITY

Bio compatibility tests, which meet or exceed USP Class VI Plastics tests, have been performed on the elastomer from which **TWS Surgical Medical Grade Silicone Sheets** is produced. Every production lot of elastomers are tested for levels of trace metals and for absence of cytopathic effects using a tissue culture test. Results are based on comparison with defined USP negative controls:

- | | |
|------------------------------|-----------------------|
| 1. Hemolysis, percent: | <1 |
| 2. Pyrogenicity: | Non-pyrogenic |
| 3. Intracutaneous Injection: | Non-irritating |
| 4. Systemic Injection: | Non-toxic |
| 5. Intramuscular Implant: | |
| 3 days | Trauma free |
| 10 days | Trauma free |
| 90 days | Trauma free |
| 6. Cell Tissue Culture: | No Cytopathic Effects |

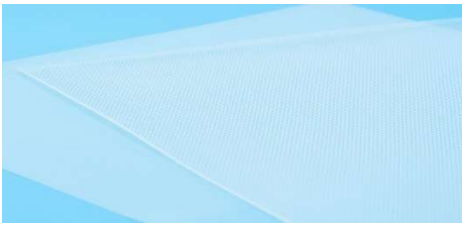
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TWS Surgical Medical Grade Silicone Sheets



APPLICATIONS

TWS Surgical Medical Grade Silicone Sheets have been utilized in planned medical procedures deemed necessary by physicians.

TWS Surgical Medical Grade Silicone Sheets have been used in emergency surgical repair of trauma injuries or abdominal wall closure.

TWS Surgical Medical Grade Silicone Sheets are used in cranioplasty and other reconstructive surgeries to prevent adhesion.

TWS Surgical Medical Grade Silicone Sheets have also been used in research laboratories, cell growth, and scar healing. Proper surgical procedures and techniques are the responsibility of the medical professional.



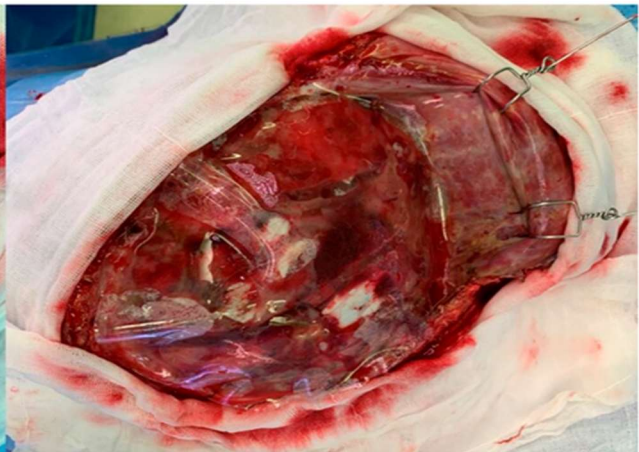
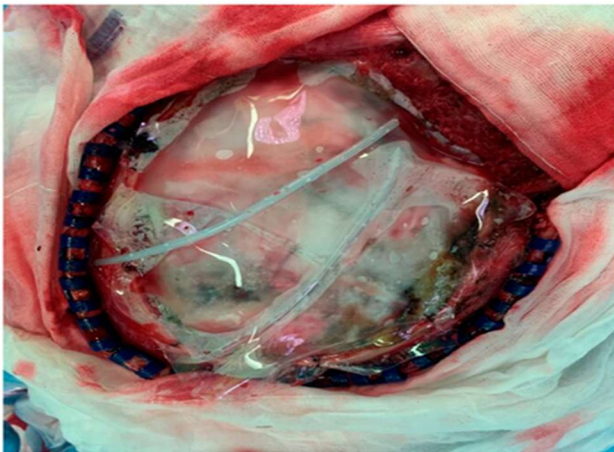
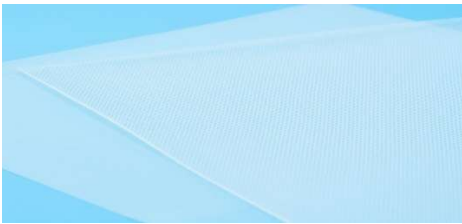
Flexible elastomer used to augment or reconstruct cartilaginous tissue.

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Medical-grade silicone sheets, Blocks are commonly used in surgical procedures for tissue reconstruction or as anti-adhesive barriers in neurosurgery.



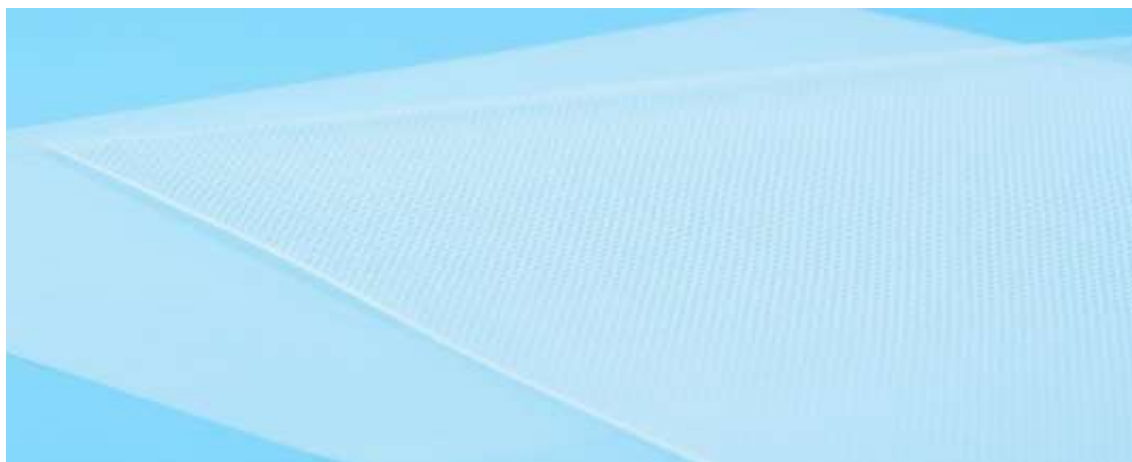
The purpose of orbital wall fracture surgery is to reduce the herniated orbital contents into the orbital cavity and restore the fracture site. When approaching the orbital wall in blow-out fracture surgery, soft tissue is often an obstacle to a clear view of the fractured site. Although soft tissue can be moved aside using a retractor, there are many difficulties, including obscuration of the operative field by soft tissue and even soft tissue sandwiched between the fracture site and the orbital implant due to soft tissue mobility.

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TWS Surgical Medical Grade Silicone Sheets



TWS Surgical Medical Grade Reinforced Silicone Sheet

- It is a medical-grade material that is embedded in the interior of the silicone Polyester Mesh Fabrics significantly increase the physical strength of the material while retaining the biocompatibility of the silicone.

Core Features and Advantages

- **Anti-tiring and stitch ability:** Pure silicone is easy to tear due to stitching.
- **The enhanced design:** allows the doctor to directly put the sheet Sutured and fixed in the tissue or around the bones, higher stitching is provided to pull out the strength.
- **Dimensional stability:** The embedded fabric prevents silicone from over-stretching or deformation during force, which is essential for **orthopedic support** that requires precise positioning.
- **Biocompatibility:** The material is inert to human tissue, not easy to produce allergic reactions, suitable for short-term (29 days) or long-term implantation.

Main application scenarios of orthopedics

1. Orthopaedic and support padding:

Included in orthopedic braces, splints or supporters, provided fixed role
At the same time, the pressure is dispersed to protect the skin.

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Sterilization and Cleaning Instructions



For NON-STERILE silicone sheeting must be sterilized before use.

Cleaning:

Remove the clean room grade polyethylene sheets from the silicone in a clean environment using gloved hands. Scrub the entire surface of the silicone sheet thoroughly using hot water and soap and a soft brush to remove skin contaminants. Do not use synthetic detergents or oil-based soaps. Rinse the sheeting thoroughly in hot water, followed by rinsing in distilled water. Avoid using a stiff-bristled brush to scrub the sheeting.

A) Standard Gravity Sterilizer:

30 minutes (minimum) at 250 degrees F, 15 psi (121 degrees C, 1 kg/cm²)

B) High Speed (flash) Sterilizer:

10 minutes (minimum) at 270 degrees F, 30 psi (132 degrees C, 2 kg/cm²)

Wrap in clean, lint-free material intended for autoclaving cycles. Place wrapped sheeting in a clean, open autoclave tray and sterilize by one of the following Autoclaving cycles:



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TWS Surgical Medical Grade Silicone Sheets



The high-quality medical grade silicone sheet has high tear strength with good finish, great transparency and mechanical properties.

Material: Silicone

Color: Transparent and White

Maximum Temperature: 200°C

Minimum Temperature: -60°C

TWS 3-05050/01T	Silicone Sheet, 5cm x 5cm x 0.1mm Transparent, High Quality Grade
TWS 3-05050/02T	Silicone Sheet, 5cm x 5cm x 0.2mm Transparent, High Quality Grade
TWS 3-05050/03T	Silicone Sheet, 5cm x 5cm x 0.3mm Transparent, High Quality Grade
TWS 3-05050/04T	Silicone Sheet, 5cm x 5cm x 0.4mm Transparent, High Quality Grade
TWS 3-05050/05T	Silicone Sheet, 5cm x 5cm x 0.5mm Transparent, High Quality Grade
TWS 3-05050/08T	Silicone Sheet, 5cm x 5cm x 0.8mm Transparent, High Quality Grade
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TWS 3-05050/15T	Silicone Sheet, 5cm x 5cm x 1.5mm Transparent, High Quality Grade
TWS 3-05050/20T	Silicone Sheet, 5cm x 5cm x 2mm Transparent, High Quality Grade
TWS 3-05050/30T	Silicone Sheet, 5cm x 5cm x 3mm Transparent, High Quality Grade
TWS 3-05050/40T	Silicone Sheet, 5cm x 5cm x 4mm Transparent, High Quality Grade
TWS 3-05050/50T	Silicone Sheet, 5cm x 5cm x 5mm Transparent, High Quality Grade

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TWS 3-07676/04T	Silicone Sheet, 7.6cm x 7.6cm x 0.4mm Transparent, High Quality Grade
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TWS 3-07676/20T	Silicone Sheet, 7.6cm x 7.6cm x 2mm Transparent, High Quality Grade
TWS 3-07676/30T	Silicone Sheet, 7.6cm x 7.6cm x 3mm Transparent, High Quality Grade
TWS 307676/40T	Silicone Sheet, 7.6cm x 7.6cm x 4mm Transparent, High Quality Grade
TWS 3-07676/50T	Silicone Sheet, 7.6cm x 7.6cm x 5mm Transparent, High Quality Grade

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TWS 3-07676/30W	Silicone Sheet, 7.6cm x 7.6cm x 3mm White, High Quality Grade
TWS 307676/40W	Silicone Sheet, 7.6cm x 7.6cm x 4mm White, High Quality Grade
TWS 3-07676/50W	Silicone Sheet, 7.6cm x 7.6cm x 5mm White, High Quality Grade

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TWS Surgical Medical Grade Silicone Sheets



The high-quality grade silicone sheet has a high tear strength with good finish, great transparency and mechanical properties.

Material: Silicone

Color: Transparent and White Re-inforce with Wire Pattern

Maximum Temperature: 200°C

Minimum Temperature: -60°C

TWS 3-37676/01T	Silicone Sheet, 7.6cm x 7.6cm x 0.1mm
TWS 3-37676/02T	Transparent, Re-inforce with Wire Pattern, High Quality Grade Silicone Sheet, 7.6cm x 7.6cm x 0.2mm
TWS 3-37676/03T	Transparent, Re-inforce with Wire Pattern, High Quality Grade Silicone Sheet, 7.6cm x 7.6cm x 0.3mm
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TWS 3-37676/20T	Transparent, Re-inforce with Wire Pattern, High Quality Grade Silicone Sheet, 7.6cm x 7.6cm x 2mm
TWS 3-37676/30T	Transparent, Re-inforce with Wire Pattern, High Quality Grade Silicone Sheet, 7.6cm x 7.6cm x 3mm
TWS 337676/40T	Transparent, Re-inforce with Wire Pattern, High Quality Grade Silicone Sheet, 7.6cm x 7.6cm x 4mm
TWS 3-37676/50T	Transparent, Re-inforce with Wire Pattern, High Quality Grade Silicone Sheet, 7.6cm x 7.6cm x 5mm
	Transparent, Re-inforce with Wire Pattern, High Quality Grade

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Material: Silicone

Color: Transparent and White Re-inforce

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