

Professional
Scar
Management

Bio Med Sciences



- **Silon®** – Enhanced durability for the toughest scar management cases
- **Oleeva®** – Self-adhesive for maximum convenience and versatility

Oleeva
Scar Management Solutions

Silon
Technology

Bio Med Sciences



Silon-SES®

Silon-SES (Silicone Elastomer Sheeting) offers maximum durability in a soft and compliant silicone sheeting. Silon-SES has a low-profile design to minimize complications with pressure garment sizing and splint fitting.

Silon-STS®

Silon-STS (Silicone Thermoplastic Splinting) is designed specifically for patients with facial burn scars. This unique product offers the advantages of combining pressure and silicone therapy in one step. Silon-STS is formed into transparent face masks using customary high-temperature techniques.

Silon-LTS®

Silon-LTS (Low Temperature Splinting) combines splinting and silicone like Silon-STS, except with the added benefit that it can be softened in warm water and formed directly against the patient's skin. This eliminates the need for high-temperature molding for cases where transparency is not needed.



Silon-TEX®

Silon-TEX (Silicone Bonded Textile) is a soft and pliable fabric with a durable layer of silicone on one side. It's comfortable and washable and it will last for months without replacement. Silon-TEX is available in rolls for point-of-care use or incorporated in custom garments from selected manufacturers.



Teflon® reinforces the silicone, allowing softer, thinner sheets with enhanced strength and durability.

Since 1987, Bio Med Sciences has delivered leading technology to the burn treatment, plastic surgery and aesthetic skin care markets. Our proven, patented Silon® technology provides a versatile platform for a wide range of medical products.

Bio Med Sciences' proprietary Silon® technology forms an interpenetrating polymer network of silicone and Teflon® (polytetrafluoroethylene or PTFE). PTFE provides an internal reinforcing mechanism, allowing very thin sheets of soft silicone that have significantly improved durability.

This microscopic "weave" of two polymers has been engineered into innovative health care products with a wide variety of physical properties and a natural suitability for skin-contacting applications.



*Teflon is a registered trademark of Dupont.

Silon® Professional Scar Management

The Silon® family of scar management products offers a comprehensive, innovative approach to reducing and preventing scars in both professional and consumer environments.

Silon® professional scar management products are designed for specialized applications—such as masks for facial burn injuries and inserts for compression garments.

Oleeva® Scar Management Solutions are specifically designed for cosmetic and reconstructive surgery patients as well as general consumer use. These products offer an excellent combination of adherence and comfort with unsurpassed durability.

Silon & Oleeva scar management products have been used in burn centers and plastic surgery clinics around the world since the early 1990s, and Bio Med Sciences is the only company to offer a comprehensive portfolio of scar management products—each designed to fit a specific clinical need.

Oleeva®
Scar Management Solutions



Oleeva Clear®

Oleeva Clear is a silicone sheeting offering transparency, remarkable stretch and conforming characteristics.



Oleeva Fabric®

Oleeva Fabric is silicone sheeting with a fabric backing. The silky fabric backing makes it easy to wear under clothing. It also reduces shear force and edge roll-up when used under pressure garments.

Oleeva Foam®

Oleeva Foam combines an adhesive silicone surface with a soft and pliable foam material. It can be used to improve pressure distribution or to offer additional padding under splints or pressure garments.



Scar Management Products Comparison

	SELF-ADHESIVE			NON-ADHESIVE			
				COMBINES PRESSURE			
				SPLINTING			
Type of Material	Oleeva Clear® Self-Adhesive Clear Silicone™ Sheeting	Oleeva Foam® Self-Adhesive Silicone™ bonded to open cell foam	Oleeva Fabric® Self-Adhesive Silicone™ bonded to silky fabric material	Silon-SES® Silicone™ Elastomer Sheeting	Silon-TEX® Silicone™ Elastomer Sheeting bonded to textile	Silon-LTS® Silicone™ Elastomer Sheeting bonded to low temp. thermoplastic	Silon-STS® Silicone™ Elastomer Sheeting bonded to high temp. thermoplastic
Transparent	Yes	No	No	Yes	No	No	Yes
Adherent	Yes	Yes	Yes	Minimally	No	No	No
Comfort	Very comfortable	Very comfortable	Very comfortable	Very comfortable	Very comfortable	Tolerable	Tolerable
Thickness	0.025 in (0.06 cm)	0.220 in (0.56 cm)	0.035 in (0.09 cm)	0.025 in (0.06 cm)	0.020 in (0.05 cm)	0.105 in (0.27 cm)	0.063 in (0.15 cm) 0.125 in (0.30 cm)
Ease of Fabrication	Pre-fabricated Cut to fit	Pre-fabricated Cut to fit	Pre-fabricated Cut to fit	Pre-fabricated Cut to fit	Pre-fabricated Cut to fit; sews easily	Warm water 70°C (160°F)	High heat 165°C (330°F)
Pliability	Gives with minimal force	Gives with minimal force	Gives with minimal force	Gives with minimal force	Gives with minimal force	Rigid; retains shape with max. force; moderate memory	Rigid; retains shape with max. force; no memory
Easy to Clean	Yes Mild soap & water	Slightly Mild soap & water	Yes Mild soap & water	Yes Mild soap & water	Yes; Hand or machine wash	Yes Mild soap & water	Yes Mild soap & water
Durability & Strength	3-5 weeks	3-5 weeks	4-6 weeks	8-10 weeks	6-8 months	8-10 months	8-10 months
Elasticity	Stretches ~75% of length	Stretches ~50% of length	Stretches ~50% of length	Stretches ~25% of length	Stretches ~50% of length	Stretches ~300% of length (heated)	Stretches ~300% of length (heated)
Breathable	Yes	Yes	Yes	Yes	Yes	No	No
Sizes	Available in 4 standard sizes and larger custom sizing as needed: 1.5x5 in (4x13 cm) 5x5 in (13x13 cm) 5x10 in (13x25 cm) 8x12 in (20x30 cm)				5x36 in (13x91 cm)	9x12 in (23x30 cm) 12x18 in (30x46 cm)	12x16 in (30x41 cm) 16x21 in (41x53 cm)
Indications for Use: Scar Hypertrophy & Keloids; Surgical Scars; Used Prophylactically to Inhibit Scar Formation	Highly visible areas such as face, neck, hands; makeup can be used to camouflage over sheeting	Distributes uniform pressure in odd spaces such as digital web spaces; elbows; knees; behind ears	Inhibits shear forces for enhanced wear to areas such as hands; UE & LE joints; pre-cut surgical shapes	Large surface area use with support fixation such as coban for areas such as thighs; torso; eyelids; chest	Sewn into garment to maintain consist- ent silicone & pressure therapy for areas such as axillia; hands; UE & LE joints	Provides joint contracture reduction; scar splinting and positioning for area such as hands; neck; UE & LE joints	Transparent maxi silicone and positioning therapy inhibit facial scar formation for areas such as face; neck breastplate
Shelf Life	5 years	3 years	5 years	5 years	5 years	5 years	5 years
Price: U.S. \$/in² Price: U.S. \$/cm²	~\$1.59/in² ~\$0.25/cm²	~\$1.59/in² ~\$0.25/cm²	~\$1.59/in² ~\$0.25/cm²	~\$1.66/in² ~\$0.26/cm²	~\$0.47/in² ~\$0.07/cm²	~\$0.53/in² ~\$0.08/cm²	~\$0.38/in² ~\$0.06/cm²
Contraindications	Open Wounds, Skin Maceration						



**Interpenetrating Polymer Network of Medical-Grade Silicone & Teflon®