



FLEXIBLE PACKAGING SUPPLIES – SEAL BARS & GASKETS

Silicone Seal Bars provide an effective solution for sealing package inconsistencies caused by food contamination, thick or multiple layers of film, product dust or particulate.

The partnership of a rigid, metal surface together with a compliant, silicone tool is an ideal combination for Flexible Packaging (Horizontal and Vertical). This attribute combined with the thermal conductivity of United Silicone’s formulations opens your process window resulting in consistent seal integrity, reduced scrap, improved throughput, and line efficiencies.



United Silicone
Silicone Seal Bars
Silicone Gaskets



Features	Benefits
Compliant and Flexible	Conforms to Part and Thickness Variations for Zippers, Multi-Layer Films, etc.
Silicone-to-Metal Bond	Enables Mechanical Machine Attachment Eliminating Adhesives and Glues
Surface Ground	Maintains a High Level of Flatness Tolerance
Custom Molded	Ready-to-Use Eliminating Machining of Sheet Stock
Non-Stick Properties	Easy Release of Packaging Films (May Eliminate Application of Teflon™ Tape)
Direct-Bond Teflon™	Teflon™ is Chemically Bonded to the Silicone
Crowned Designs	Eliminate Appearance of Air Pockets Which is Ideal for Long Seal Bars
Quick-Change Mounting Systems	Magnetic and Dovetail Designs Provide Fast and Easy Installation
FDA and 3A Dairy Certified	Approved for Direct Food Contact Applications



Product Availability

- Silicone and Teflon™ Bars
- Gaskets
- Magnetic Mounting Blocks
- Platens and Anvils
- Rollers
- Seal Heads
- Silicone Sheets



Silicone Rubber Advantages

- Excellent Silicone-to-Metal Bond
- Thermally Conductive
- Heat Tolerant to 550°F
- Various Formulations
- Resistant to Compression Stress
- 40 to 90 Durometer (Shore A)
- 3A and FDA Certified Materials

Common Applications

- Flexible Packaging
- Blister Sealing
- Edge Banding
- Conduction Sealing
- Heat Transfer and Hot Stamping
- Laminating
- Linerless Labels
- Nip and Feed Applications

Seal Heads

- Silicone and Metal Available
- Custom Molded
- Repeatable from Head-to-Head

Rollers

- Various Silicone Formulations
- Flat or Crowned
- Seamless Finish
- FDA Compliant and 3A Certified
- Excellent Silicone-to-Metal Bond
- Thermally Conductive
- Heat Tolerant to 550°F
- 40 to 90 Durometer (Shore A)
- Overall Length up to 110 Inches
- Finished OD to 20 Inches

Silicone Rubber Sheets

- Standard Sizes
 - 12" x 24"
 - 24" x 36"
- Precision Ground for Flatness
- Smooth and Textured Surfaces
- Bonded and Unbonded Available
- Various Aluminum Thicknesses (1/16" to 1/2")

Tooling

- Part Holding Fixtures
- Magnetic Mounting Systems
- Complete Machine Shop Capabilities

Equipment

- Dedicated to Heat Seal
- Standard Machines
- Semi-Automated



ISM offers a complete line of heat seal tooling and supplies from United Silicone.