

# Introducing ITW Teflon Bonded Silicone

*Heat Seal Solutions for Today's Packaging Challenges*



The ITW Teflon Bonded Silicone is engineered specifically to provide an alternative to wrapping Silicone tools with Teflon Tape.

Designed to be more robust-it lasts 7 times longer in production, significantly reduces changeover and maintenance time while enhancing seal integrity.

With an excellent Teflon-to-Silicone Bond, this new product has proven to provide effective solutions for sealing package inconsistencies caused by food contamination, thick or multiple layers of film, product, dust, or particulate.



## United Silicone Advantages

- Excellent Teflon-to Silicone Bond eliminating the need for Teflon Tape
- Reduces Downtime- Significantly lessens changeover and maintenance time
- Enhanced Seal Integrity- helps to reduce leakers
- Improves Processes- resistant to product contamination
- Improved Heat Transfer

### PROPERTIES OF TEFLON/SILICONE RUBBER FORMULATIONS

Formulation	Duro (Shore A)	Tensile Strength (PSI)	Compression Set (%)	Heat Resistance	Specific Gravity
ITW Teflon Bonded Silicone	60	646	9.0	500°F	1.71

*\*additional durometers available*

**Durometer** - The Hardness of a material as measured on the Shore A Scale

**Tensile Strength** - The pulling stress just before the material breaks into 2 pieces

**Compression Set** - The measure of material resiliency after being subjected to compression and heat

**Heat Resistance** - Ability of a material to remain bonded to metal during exposure to extreme temperature.

**Specific Gravity** - The density of material divided by that of water

*"USI's Teflon Bonded Silicone remained in perfect condition after 6 weeks of trials...we would like to continue to expand and use this product on our other manufacturing lines" ~Major Food Corporation*

#### Trusted Partner for Your Product Decorating Needs

United Silicone 4471 Walden Avenue, Lancaster, NY 14086

Tel +1 (716) 681 8222 Fax +1 (716) 681 8789

Email [info@unitedsilicone.com](mailto:info@unitedsilicone.com)

[www.unitedsilicone.com](http://www.unitedsilicone.com) [www.itwids.com](http://www.itwids.com)

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## United Silicone Offers a complete Line of Heat Sealing Tooling & Supplies

### ROLLERS

- Various Formulations
- Flat, Contoured or Stepped
- Seamless Finish
- 40-90 Durometer (Shore A)
- Overall Length up to 110"
- Finish OD to 20"
- Expedited Lead Times
- New or "Re-coat"

### TOOLING

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

### SILICONE RUBBER SHEETS

- Standard Sizes 12" X 24"  
24" X 36"
- Precision Ground for Flatness
- Bonded & Unbonded
- Various Aluminum Thicknesses

### SEAL HEADS

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

### COMMON APPLICATIONS

- Flexible Packaging
- Cup Sealing
- Tray Sealing
- Blister Sealing
- Edge Banding
- Conduction Sealing
- Laminating
- Linerless Labels
- Nip & Feed Applications

Contact United Silicone to see our complete product offering of Hot Stamp & Heat Transfer Equipment & Supplies



United Silicone, part of Industrial Decorating Solutions (IDS), specializes in the design and production of standard and custom hot stamp and heat transfer decorating machines.

United Silicone also provides a complete range of supplies including: silicone rubber dies, rollers, sheets, part holding fixtures and heat seal supplies.

As a leading designer and manufacturer of state-of-the-art plastics decorating systems, United Silicone has the in-house engineers to provide solutions to your toughest decorating problems.

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