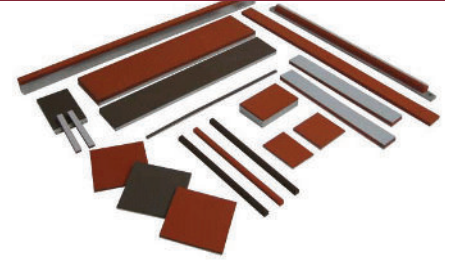


# Silicone Rubber Sheet Solutions



Silicone Rubber sheet stock is commonly used for hot stamping raised graphics or broad areas on flat, contoured or cylindrical shaped objects. United Silicone offers a wide variety of silicone rubber materials to meet requirements for heat resistance and thermal conductivity. Our complete product line includes rubber materials ideal for heat sealing, nip or feed mediums, packaging and other applications that benefit from a flexible yet non-marring, non-skid material.

**Benefits:**

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

**Common Applications:**

- Bag Sealing
- Blister Packaging
- Heat Sealing
- Heat Transfer & Hot Stamping
- Packaging
- Tipping
- Make-Ready
- Part Holding
- Gripper Fingers
- Gaskets

**Silicone Rubber Sheets**

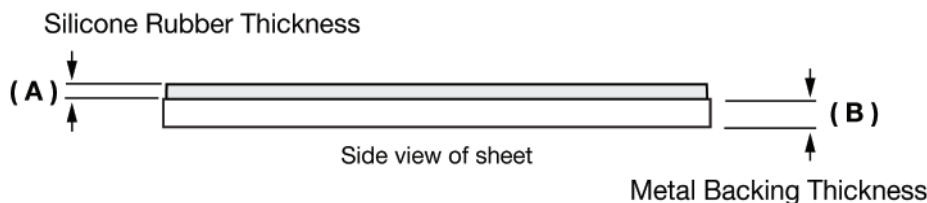
- Standard Sizes – 12" x 24"  
24" x 36"
- Precision Ground for Flatness
- Bonded & Unbonded
- 40-90 durometers (Shore A)

**Rubber Thickness (A)**

- 1/16" & 1/8" standard

**Metal Backing (B)**

- Various Aluminum Thicknesses
- Aluminum, steel, stainless steel, and dead soft aluminum (easily formed to set contour) available


**Trusted Partner for Your Product Decorating Needs**

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## SILICONE SHEETS — TECHNICAL BROCHURE

### Properties of Silicone Rubber Formulations

Formulation	Duro (Shore A)	Tensile Strength (PSI)	Elongation (%)	Compression Set (%)	Heat Resistance	Specific Gravity
Ultrasil (Red)	90	1110	125	30	550	1.75
	80	1100	185	24	550	1.72
	70	1030	270	20	550	1.6
	60	1050	365	18	550	1.45
	50	940	535	17	550	1.35
	40	890	100	15	550	1.11
Thermosil (Brown)	90	1075	120	14	550	2.1
	80	1050	175	12	550	2.09
	70	1030	215	7	550	1.8
	60	980	423	6	550	1.63
FDA 3A (red) Class I	60	1354	423	6	500	1.17

Ultrasil	Thermosil	FDA-3A
Demanding vertical & peripheral operations requiring high temperatures and/or high pressures – typically manually fed.	Semi – Automatic and fully automated sealing applications requiring very stable high temperatures and rapid heat recovery.	3A Sanitary - Class 1 Test Specifications.

**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

**Elongation** – The fractional increase in length of a material, stressed in tension, just before it breaks into two 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

Contact U.S. to see our complete line 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.

#### Trusted Partner for Your Product Decorating Needs

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