



ElastaPro Silicone Sheeting

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LOW OUTGASSING GRADE SILICONE SHEETING

DESCRIPTION:

Our **Low Outgassing** grade silicone sheeting is engineered for critical markets such as **aerospace, defense, electronics, optics, medical devices**, and other high-vacuum environments where material purity is paramount. This silicone is specifically formulated and processed to minimize the release of volatile compounds under vacuum and/or heat, thereby preventing the contamination of sensitive components, such as lenses, sensors, and electronic circuits. It is easily die-cut and provides a superior gasket and sealing solution for critical applications. Thicknesses are available from 0.010" to 0.500" thick, with widths up to 36" wide.

KEY CHARACTERISTICS:

- Extreme High & Low-Temperature Resistant -85°F to +525°F (Intermittent)
- **Meets ASTM E595 Outgassing Requirements:**
 - Total Mass Loss (TML) $\leq 1.00\%$
 - Collected Volatile Condensable Material (CVCM) $\leq 0.10\%$
- **Post-cured** to ensure minimal volatile content and stability
- UV / Ozone Resistant
- Peroxide Free, odorless, and tasteless
- FDA compliant per FDA TITLE 21 CFR 177.2600

PROPERTIES	TEST METHOD	ESS40LO	ESS50LO	ESS60LO	ESS70LO
Specific Gravity, g/cc	ASTM D297	1.10	1.13	1.15	1.19
Durometer, Shore "A"	ASTM D2240	40+/-5	50+/-5	60+/-5	70+/-5
Tensile Strength, psi	ASTM D412	1100	1200	1250	1250
Elongation, %	ASTM D412	900	900	750	650
Tear, ppi Die "B"	ASTM D624	200	175	180	200

These typical physical properties are provided for evaluation information only.
It is up to the end-user to determine the appropriate material for the intended application.