

Name FDA Grade Silicone Sheet Rubber
Code 81-SIL-FDA-SS

1. DIMENSIONS AND APPEARANCE

Thickness in 1/32, 1/16, 3/32, 1/8, 1/4, 3/8, 1/2, custom thicknesses available
Typical length ft 50 - 100
Typical width in 36, 48, 60, 72
Surface finishing Smooth finish, both sides
Color Red/orange, translucent, black, others available

2. PHYSICAL PROPERTIES

Property	Shore A	40 ± 5	50 ± 5	60 ± 5	70 ± 5	80 ± 5	ASTM
Hardness							D2240
Tensile strength, min	psi	950	1100	1100	1000	1000	D412
Elongation, min	%	400	350	280	200	200	D412
Tear strength (Die C), min	ppi	90	100	100	100	95	D624
Specific gravity, typical	g/cm ³	1.13	1.15	1.18	1.21	1.25	
Low working temp	°F	-80	-80	-80	-80	-80	
High working temp	°F	450	450	450	450	450	

81-SIL-FDA-SS meets FDA regulation 21 CFR 177.2600 for rubber articles intended for repeated use.

3. TOLERANCES

TARGET THICKNESS, in (mm)	MINIMUM, mm	MAXIMUM, mm
1/32 (0.8)	0.50	1.10
1/16 (1.6)	1.30	1.90
3/32 (2.4)	2.00	2.80
1/8 (3.2)	2.70	3.70
1/4 (6.4)	5.90	6.90
3/8 (9.5)	8.70	10.30
1/2 (12.7)	11.90	13.50

Width tolerance in (mm) +0.787 / -0 (+20 / -0)
Length tolerance in (mm) +7.87 / -0 (+200 / -0)