

Name **ZZ-R Grade Silicone Sheet Rubber**
Code **81-SIL-ZZR-SS**
Spec **ZZ-R-765E 2A/2B**

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, 39.4, 47.2, 59.1
Surface finishing		Smooth finish, both sides
Color		Red/orange, translucent, black, others available

2. PHYSICAL PROPERTIES (2A/2B)

Hardness	Shore A	40 ± 5	50 ± 5	60 ± 5	70 ± 5	80 ± 5	ASTM D2240
Tensile strength, min	psi	700	700	650	650	650	ASTM D412
Elongation, min	%	240	200	150/100	125/80	100/60	ASTM D412
C. set (70h, 150°C), max	%	35/25	35/25	40/25	40/25	45/30	ASTM D395B
Oven aging (70h, 225°C)							
Change in hardness	Shore A	±10	±10	±10	±10	±10	ASTM D573
Change in tensile	%	-20	-20	-20	-25	-25	ASTM D573
Change in elongation	%	-40	-40	-40	-40	-40	ASTM D573
Water absorption, max	%vol	+10	+5	+5	+5	+5	ASTM D471
Specific gravity, typical	g/cm ³	1.13	1.15	1.18	1.21	1.25	
Low temp brittlepoint, max	°F	-80	-80	-80	-80	-80	ASTM D2137
High working temp	°F	450	450	450	450	450	

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)