

Name **ZZ-R Grade Silicone Sheet Rubber**
Code **81-SIL-ZZR-SS**
Spec **ZZ-R-765 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) |