



Overview

SI500R00 is an orange, 50 shore A Silicone VMQ rubber designed for use in wide range of industrial applications.

Features & Benefits

- Low durometer for improved flexibility and low force compression.
- Good resistance to ozone, detergent, salt water, vegetable, and animal oils and much more.
- Available in a variety of colors and durometers and shapes.

Service Temperature

- -60°C to 205°C (-75°F to 400F)

Specification

- ASTM D 2000 M5GE506 A19 B37 E016 E036 G11 EA14 F19

Test Data

Table 1. Physical Properties		
Test	Requirements	Results
Color	Orange	Orange
Hardness, Shore A	50+/-5	50
Tensile Strength, psi (MPa)	870 min	1041 (7.18)
Elongation	250% min	380%
Specific Gravity, g/cm ³		1.32



Table 2. A19 - Heat Aging - 70 hrs at 225°C

Test (Change)	Requirements	Results
Hardness, Shore A	+10 max	-2
Tensile Strength, %	-25 max	+10
Elongation, %	-30 max	-10

Table 3. B37 - Compression Set - 22 hrs at 175°C

Test (Change)	Requirements	Results
Permanent Set, %	25 max	15

Table 4. E016 - IRM 901 Oil Resistance - 70 hrs at 150°C

Test (Change)	Requirements	Results
Hardness, Shore A	-15 to 0	-5
Tensile Strength, %	-20 max	-5
Elongation, %	-20 max	+11
Volume, %	0 to +10	+3

Table 5. E036 - IRM 903 Oil Resistance - 70 hrs at 150°C

Test (Change)	Requirements	Results
Hardness, Shore A	-30 max	-16
Volume, %	+60 max	+48

Table 6. F19 - Low Temp Brittleness Test - 3 mins at -55°C

Test (Change)	Requirements	Results
Brittleness	Non-Brittle	Non-Brittle