

Overview

SI500R13 is a low temperature, orange, 50 shore A Silicone VMQ rubber designed for use in wide range of low temperature industrial applications.

Features & Benefits

- Low temperature silicone.
- Low durometer for improved flexibility & low force compression.
- Resistance to ozone, detergent, salt water, vegetable, animal oils, etc.
- Available in a variety of colors and durometers and shapes.

Service Temperature

- -75°C to 205°C (-103°F to 400F)

Specification

- ASTM D 2000 M5GE505 A19 B37 E016 E036 Z1

Test Data

Table 1. Physical Properties

Test	Requirements	Results
Color	Orange	Orange
Hardness, Shore A	50+/-5	52
Tensile Strength, psi (MPa)	725 min (5.5)	797 (5.5)
Elongation	250% min	270%
Specific Gravity, g/cm ³		1.15

The information provided in this data sheet is based on test results and our combined expertise. This data sheet is intended to serve only as a reference and is not considered a guarantee.



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

Test (Change)	Requirements	Results
Hardness, Shore A	+10 max	-2
Tensile Strength, %	-25 max	+5
Elongation, %	-30 max	-1

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

Test (Change)	Requirements	Results
Permanent Set, %	25 max	10

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	-4
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	-20
Volume, %	+60 max	+15

Table 6. Z1 - Low Temp Brittleness Test - 3 mins at -100°C

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