



Overview

SI600R50 is a 60 shore A silicone offering improved high temperature performance at a competitive price. It has excellent resistance to thermal degradation & compression set. Compare to Parker S0613-60 and S0383-70.

Features & Benefits

- High temperature resistance
- Low compression set
- Exceptional environmental resistance (O₂, O₃, & UV)
- Fungal resistant

Service Temperature

- -55°C to 235°C (-67°F to 455°F)

Specification

- ASTM D 2000 M3GE603 B37 E016 E036 F19 G11 EA14
- ASTM D 2000 M5GE606 A19 B37 EA14 E016 E036 F19
- A-A-59588 (2B-60), ZZ-R-765 (2B-60)

Test Data

Table 1. Physical Properties

Test	Requirements	Results
Color	Orange	Orange
Hardness, Shore A	60+/-5	62
Tensile Strength, psi (MPa)	725 min	1000 (6.9)
Elongation	200% min	270%



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

Test (Change)	Requirements	Results
Hardness, Shore A	+10 max	+0
Tensile Strength, %	-25 max	-7
Elongation, %	-30 max	-35

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

Test (Change)	Requirements	Results
Permanent Set, %	25 max	11

Table 4. E016 - IRM 901 Oil (ASTM #1) Resistance - 70 hrs at 150°C

Test (Change)	Requirements	Results
Hardness, Shore A	-15 to 0	-6
Tensile Strength, %	-20 max	+4
Elongation, %	-20 max	-15
Volume, %	0 to +10	+6

Table 5. E036 - IRM 903 Oil (ASTM #3) Resistance - 70 hrs at 150°C

Test (Change)	Requirements	Results
Hardness, Shore A	-40 max	-16
Volume, %	+60 max	+39

Table 5. F19 - Low Temp Brittleness Test - 3 mins at -55°C

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