



Overview

SI700R50 is an 70 shore A silicone offering improved high temperature performance at a competitive price. It has excellent resistance to thermal degradation & compression set. Compare to Parker S0604-70 and S1224-70

Features & Benefits

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

Service Temperature

- -54°C to 260°C (-65°F to 500°F)

Specification

- ASTM D2000 M5GE706 A19 B37 E016 E036

Test Data

Table 1. Physical Properties		
Test	Requirements	Results
Color	Orange	Orange
Hardness, Shore A	70+/-5	69
Tensile Strength, psi (MPa)	870 min	943 (6.5)
Elongation	150% min	223%
Specific Gravity, g/cm ³		1.18



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

Test (Change)	Requirements	Results
Hardness, Shore A	+10 max	+4
Tensile Strength, %	-25 max	+1
Elongation, %	-30 max	-4

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

Test (Change)	Requirements	Results
Permanent Set, %	25 max	18

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

Test (Change)	Requirements	Results
Hardness, Shore A	-15 to 0	-5
Tensile Strength, %	-20 max	-12
Elongation, %	-20 max	0
Volume, %	0 to +10	+2

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

Test (Change)	Requirements	Results
Hardness, Shore A	-30 max	-17
Volume, %	+60 max	+13

Looking for specific chemical compatibilities or desire more material information? [Please Contact Us!](#)