



Overview

SI700R01 is an orange, Peroxide cured, 70 shore A Silicone VMQ rubber designed for use in a wide range of industrial applications.

Features & Benefits

- Comparable to Parker S1138-70
- 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 400°F)

Specification

- ASTM D 2000 M7GE705 A19 B37 EA14 E016 E036 F19 G11
- ASTM D 2000 M5GE706 A19 B37 EA14 E016 E036 F19 G11

Test Data

Table 1. Physical Properties		
Test	Requirements	Results
Color	Orange	Orange
Hardness, Shore A	70+/-5	70
Tensile Strength, psi (MPa)	725 min	946 (6.52)
Elongation	150% min	210%
Specific Gravity, g/cm ³		1.43

General Purpose



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

Test (Change)	Requirements	Results
Hardness, Shore A	+10 max	+3
Tensile Strength, %	-25 max	+8
Elongation, %	-30 max	-25

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 Resistance - 70 hrs at 150°C

Test (Change)	Requirements	Results
Hardness, Shore A	-15 to 0	-4
Tensile Strength, %	-20 max	+10
Elongation, %	-20 max	+6
Volume, %	0 to +10	+5

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

Test (Change)	Requirements	Results
Hardness, Shore A	-30 max	-11
Volume, %	+60 max	+35

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

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