



Overview

SI700R22 is an orange, extreme low temperature, 70 shore A Silicone VMQ rubber designed for use in a wide range of applications. Compare to Parker S0355-75.

Features & Benefits

- Extreme Low Temperature.
- 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

- -75°C to 205°C (-103°F to 401°F)

Specification

- ASTM D 2000 M7GE705 A19 B37 E016 E036
- A-A-59588 (ZZ-R-765) Class 1A & 1B, Grade 70 Compliant

Test Data

Table 1. Physical Properties		
Test	Requirements	Results
Color	Orange	Orange
Hardness, Shore A	70+/-5	72
Tensile Strength, psi (MPa)	725 min	1305 (9)
Elongation	150% min	400%
Specific Gravity, g/cm ³		1.22



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

Test (Change)	Requirements	Results
Hardness, Shore A	+10 max	+3
Tensile Strength, %	-25 max	-15
Elongation, %	-30 max	-28

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

Test (Change)	Requirements	Results
Permanent Set, %	30 max	24

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

Test (Change)	Requirements	Results
Hardness, Shore A	-15 to 0	-6
Tensile Strength, %	-20 max	-13
Elongation, %	-20 max	-8
Volume, %	0 to +15	+10

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

Test (Change)	Requirements	Results
Hardness, Shore A	-40 max	-30
Volume, %	+60 max	+52

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

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