

Overview

SI700R53 is an orange, high temperature, Peroxide cured, 70 shore A Silicone VMQ rubber manufactured per A-A-59588 (2B-70), ZZ-R-765 (2B-70). Compare to Parker S0604-70.

Features & Benefits

- Improved performance in High Temperature applications.
- Comparable to Parker S0604-70.
- Good resistance to ozone, detergent, salt water, vegetable, and animal oils and much more.

Service Temperature

- -60°C to 232°C (-75°F to 450F)

Specification

- A-A-59588 (2B-70), ZZ-R-765 (2B-70).

Test Data

Table 1. Physical Properties

Test	Requirements	Results
Color	Orange	Orange
Hardness, Shore A	70+-5	71
Tensile Strength, psi (MPa)	650 min (6.5)	945 (6.5)
Elongation	80% min	180%
Specific Gravity, g/cm ³		1.16



Table 2. Heat Aging – 70 hrs at 225°C

Test (Change)	Requirements	Results
Hardness, Shore A	-10 to +10	+3
Tensile Strength, %	-25 max	-8
Elongation, %	-40 max	-20
Volume, %	N/A	+3

Table 3. Compression Set - 22 hrs at 150°C

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

Table 4. Water Resistance – 70 hrs at 100°C

Test (Change)	Requirements	Results
Volume, %	+5 max	+1

Table 6. Low Temp Brittleness Test - 3 mins at -65°C

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

SI700R53 is now available on the Canyon Components [online store!](#)

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