



## 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	945 (6.5)
Elongation	80% min	180%
Specific Gravity, g/cm <sup>3</sup>		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!](#)