

Overview

SI700R00 is an orange FDA compliant, Peroxide cured, 70 shore A Silicone VMQ rubber designed for use in food and a wide range of industry applications.

Features & Benefits

- FDA compliant to 21 CFR 177.2600
- 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 400F)

Specification

- ASTM D 2000 M7GE705 A19 B37 E016 E036 F19

Test Data

Table 1. Physical Properties

Test	Requirements	Results
Color	Orange	Orange
Hardness, Shore A	70+/-5	70
Tensile Strength, psi (MPa)	725 min (6.52)	946
Elongation	150% min	210%
Specific Gravity, g/cm ³		1.32

The information provided in this data sheet is based on test results and our combined expertise. This data sheet is intended to serve only as a reference and is not considered a guarantee.



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

Test (Change)	Requirements	Results
Hardness, Shore A	+10 max	+6
Tensile Strength, %	-25 max	-9
Elongation, %	-30 max	-27

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

Test (Change)	Requirements	Results
Permanent Set, %	30 max	11

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

Test (Change)	Requirements	Results
Hardness, Shore A	-10 to 0	-4
Tensile Strength, %	-30 max	+12
Elongation, %	-20 max	+1
Volume, %	0 to +15	+4.2

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

Test (Change)	Requirements	Results
Hardness, Shore A	-40 max	-19
Volume, %	+60 max	+39

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

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