

Overview

SI70RE05 is a red, silicone oil coated, Peroxide cured, 70 shore A Silicone VMQ rubber designed for use in industrial applications where low friction is necessary.

Features & Benefits

- Externally coated with Silicone Oil.
- 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 (-76°F to 401F)

Specification

- ASTM D 2000 M7GE705 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 (9)	1305
Elongation	150% min	400%
Specific Gravity, g/cm ³		1.28



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

Test (Change)	Requirements	Results
Hardness, Shore A	+10 max	0
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	10

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

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

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

Test (Change)	Requirements	Results
Hardness, Shore A	-40 max	-10
Volume, %	+60 max	+31

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

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