



Overview

SI50BU05 is a Blue FDA compliant, Peroxide cured, 50 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 400°F)

Specification

- ASTM D 2000 M5GE506 A19 B37 F19

Test Data

Table 1. Physical Properties		
Test	Requirements	Results
Color	Blue	Blue
Hardness, Shore A	50+/-5	50
Tensile Strength, psi (MPa)	870 min	1247 (8.6)
Elongation	250% min	310%
Specific Gravity, g/cm ³		1.18



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

Test (Change)	Requirements	Results
Hardness, Shore A	+10 max	-3
Tensile Strength, %	-25 max	-24
Elongation, %	-30 max	-13

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

Test (Change)	Requirements	Results
Permanent Set, %	25 max	18

Table 4. F19 - Low Temp Brittleness Test - 3 mins at -55°C

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

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