

Overview

SI50TR35 is a clean room manufactured, platinum cured, ISO 10993-1 compliant, FDA, USP Class VI, 50 shore A, translucent Silicone VMQ rubber designed for use in medical device and pharmaceutical applications and a wide range of sensitive industrial applications.

Features & Benefits

- Platinum Cured
- FDA compliant to 21 CFR 177.2600
- USP Class VI <87> & <88>
- ISO 10993-1 compliant
- Clean Room Manufactured

Service Temperature

- -55°C to 205°C (-67°F to 401°F)

Specification

- ASTM D2000 M4GE506 G11 A19 B37 EA14 F19

Test Data

Table 1. Physical Properties

Test	Requirements	Results
Color	Translucent	Translucent
Hardness, Shore A	50+/-5	51
Tensile Strength, psi (MPa)	870 min	1450 (10)
Elongation	250% min	860%
Specific Gravity, g/cm ³		1.15

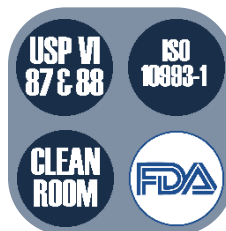


Table 2. A19 – Heat Aging – 70 hrs at 225°C

Test (Change)	Requirements	Results
Hardness, Shore A	+10 max	0
Tensile Strength, %	-30 max	-25
Elongation, %	-30 max	-22

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

Test (Change)	Requirements	Results
Permanent Set, %	50	11

Table 4. EA14 – Water Resistance – 70 hrs at 100°C

Test (Change)	Requirements	Results
Hardness, Shore A	-5 to +5	+3
Tensile Strength, %	N/A	+11
Elongation, %	N/A	-5
Volume, %	-5 to +5	-2

Table 6. 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!](#)