



Overview

SI40TR20 is a translucent ultra-low temperature, 40 shore A Silicone PVMQ rubber designed for use in a wide range of low temperature industry applications.

Features & Benefits

- Ultra-low temperature PVMQ silicone
- 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

- -108°C to 205°C (-162°F to 401F)

Specification

- ASTM D 2000 M2GE405 A19 B37 E016 E036

Test Data

Table 1. Physical Properties

Test	Requirements	Results
Color	Translucent	Translucent
Hardness, Shore A	40+/-5	39
Tensile Strength, psi (MPa)	725 min	1175 (8.1)
Elongation	300% min	580%
Specific Gravity, g/cm³		1.26
Glass Transition Temperature Tg, °C		-108



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

Test (Change)	Requirements	Results
Hardness, Shore A	+10 max	+2
Tensile Strength, %	-25 max	-18
Elongation, %	-30 max	-3

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

Test (Change)	Requirements	Results
Permanent Set, %	25 max	11

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

Test (Change)	Requirements	Results
Hardness, Shore A	-10 to 0	-5
Tensile Strength, %	-30 max	+5
Elongation, %	-30 max	+28
Volume, %	0 to +15	+9

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

Test (Change)	Requirements	Results
Hardness, Shore A	-30 max	+12
Volume, %	+60 max	+50

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