



Overview

SI70TR20 is a translucent ultra-low temperature, 70 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

- -115°C to 205°C (-175°F to 401°F)

Specification

- ASTM D 2000 M7GE705 A19 B37 E016 E036 F19

Test Data

Table 1. Physical Properties

Test	Requirements	Results
Color	Translucent	Translucent
Hardness, Shore A	70+/-5	70
Tensile Strength, psi (MPa)	725 min	1305 (9)
Elongation	150% min	320%
Specific Gravity, g/cm³		1.22
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	+5
Tensile Strength, %	-25 max	-10
Elongation, %	-30 max	-26

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

Test (Change)	Requirements	Results
Permanent Set, %	30 max	12

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

Test (Change)	Requirements	Results
Hardness, Shore A	-10 to 0	-2
Tensile Strength, %	-30 max	+15
Elongation, %	-20 max	+2
Volume, %	0 to +15	+6

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

Test (Change)	Requirements	Results
Hardness, Shore A	-40 max	-22
Volume, %	+60 max	+40

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

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

SI70TR20 is now available on the Canyon Components [online store!](#)