

ASTM D2000 M2 GE706 A19 B37 EA14 EO36 F19 G11

Silicone (VMQ) FDA 70 ShA

VMQ / SI / Vinyl Methyl Silicone

Silicone rubber contains methyl and vinyl groups attached to the main silicone chain. Silicone O-rings are characterised by excellent resistance to temperature extremes and thermal cycling. Silicone rubber compound does not impart odour or taste, which makes it suitable for many food and pharmaceutical applications. Silicone rubber however, has poor mechanical properties as compared to other elastomers and for this reason silicone O-rings are generally not used in dynamic applications. It is not suitable for use with silicone O-ring lubrication, PTFE alternatives should be used instead.

Colour: Red

Operating temperature range: -60°C to 200°C

Physical Property	Test Method	Units	Typical Values
Hardness	ASTM D 2240	Shore A	73
Tensile Strength	ASTM D 412	Mpa	7.1
Elongation	ASTM D 412	%	212
Specific Gravity	ASTM D 1817	g/cm3	1.33
Compression Set 25	ASTM D 395 B	%	15
Tear Resistance	ASTM D 412	N/mm	212
Low Temperature Resistance	ASTM D 2137 / -70	°C	PASS

Aging Property	Test Method	Time (h)	Temperature (°C)	Hardness	Tensile Strength (%)	Ultimate Elongation (%)	Volume (%)
Air	ASTM D 573	70	225	8	-25	-30	
Water	ASTM D 471	70	100	-3			4
ASTM Oil 901	ASTM D 471	70	150	-10	-20	-19	8
ASTM Oil 903	ASTM D 471	70	150				55

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