

ASTM D2000 M5 GE706 A19 B37 EO16 EO36 F19

Silicone (VMQ) Red 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 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: -55°C to 200°C

Physical Property	Test Method	Units	Typical Values
Hardness	ASTM D 1415	IRHD	70 ±5
Tensile Strength	ASTM D 412	Mpa	6.1
Elongation	ASTM D 412	%	261
Specific Gravity	ASTM D 297	g/cm3	1.38 ±0.03
Compression Set 22h / 175°C	ASTM D 395 B	%	15
Low Temperature Resistance	ASTM D 1329 - TR10	°C	-42

Aging Property	Test Method	Time (h)	Temperature (°C)	Hardness	Tensile Strength (%)	Ultimate Elongation (%)	Volume (%)
Air	ASTM D 573	70	225	2	-15	-24	
ASTM Oil 901	ASTM D 471	70	150	-6	4	-10	5
ASTM Oil 903	ASTM D 471	70	150	-16			38

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