



301 - Silicone Rubber (VMQ)

Temperature Range: - 60°C to + 232°C (-58°F to +450°F).

Silicone Rubber is made from silicone, oxygen, hydrogen, and carbon; it can be compounded to be electrically resistant, conductive, or flame retardant.

Its unique characteristics include an ability to cope with high extremes of temperature in excess of 240°C it also remains flexible at temperatures as low as -60°C. Whilst in general silicones can exhibit poor tensile strength, tear resistance, and abrasion resistance there are specialist compounds that have been developed which can increase certain properties for more specialised applications, high strength compounds have been made, but their strength still does not compare to natural rubbers.

When cured correctly Silicone compounds are very clean and can be used in many food and medical applications because they do not impart odour or taste. Due to the relatively low tear strength and high coefficient of friction Silicone compounds are not recommended for dynamic O-ring sealing applications. Silicone has low resistance to mineral oils but has excellent/good resistant to hot air, ozone, UV radiation, engine and transmission oils, animal and vegetable fats and oils, and brake fluids.

Standard Stock Sheet Colours: - Translucent, White, Black, Blue, Red Oxide, Grey
An infinite range of colours, including 'Colour Matched', is available for bespoke manufactured items.

Ref	Specification	Hardness IRHD	SG	Tensile Strength (psi)	Elongation at Break %	Colour
301 - S301	Commercial	30°	1.12	1090	450	To Order
301 - S401	Commercial	40°	1.12	1100	450	To Order
301 - S406	Food Quality	40°	1.12	1100	450	To Order
301 - S407	Oil Resistant	40°	1.12	1100	343	To Order
301 - S501	Commercial	50°	1.12	1700	560	To Order
301 - S506	Food Quality	50°	1.12	1700	560	To Order
301 - S508	High Strength	50°	1.15	1450	600	To Order
301 - S601	Commercial	60°	1.16	1500	400	To Order
301 - S606	Food Quality	60°	1.16	1500	400	To Order
301 - S607	Oil Resistant	60°	1.16	1450	560	To Order
301 - S609	High Temp	60°	1.17	1230	350	To Order
301 - S701	Commercial	70°	1.19	1690	360	To Order
301 - S706	Food Quality	70°	1.19	1690	360	To Order
301 - S707	Oil Resistant	70°	1.19	1650	380	To Order
301 - S708	High Strength	70°	1.22	1370	475	To Order
301 - S801	Commercial	80°	1.21	1480	320	To Order

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