



## Rhondama Material Data Sheets for Manufactured Parts

# MVQ/Silicone

(FDA Approved)

Standard Colour Blue, Similar RAL 5024

MVQ or Methyl Silicone Rubber commonly referred to as Silicone. Silicone materials are often used in hot air, steam, chemical and foodstuff applications where its outstanding chemical and temperature resistance may be needed. Because of its lower mechanical properties compared to other elastomers, Silicone should not be used for dynamic applications.

### Resistant against

Resistant to water up to 70°C but will cope with temperature up to 90°C. HFA Fluids, HFB Fluids, Ozone and Air up to 200°C

### Applicable for

Rod and Piston seals, Wipers, O-Rings, Flange Seals and Gaskets

### Mechanical, Physical & Thermal Properties

properties	condition	standard	unit	value	unit	value
hardness	23°C	ISO 868	shore A	85 ± 5	shore A	85 ± 5
modulus 100%	23°C	DIN 53 504	MPa	≥ 4	psi	≥ 405
tensile strength	23°C	DIN 53 504	MPa	≥ 7	psi	≥ 710
elongation at break	23°C	DIN 53 504	%	120	%	120
tear strength	23°C	DIN ISO 34-1	kN/m	≥ 15	lbf/inch	≥ 85
spec. gravity	23°C	ISO 1183	kg/m <sup>3</sup>	1580	g/cm <sup>3</sup>	1,58
rebound elasticity	23°C	DIN 53 512	%	35	%	35
abrasion	23°C	DIN 53 516	mm <sup>3</sup>		mm <sup>3</sup>	
compression set	*	ISO 815	%	≤ 8	%	≤ 8
compression set	**	ISO 815	%	≤ 9	%	≤ 9
compression set	***	ISO 815	%		%	
minimum service temperature			°C	-60	°F	-76
maximum service temperature			°C	200	°F	392
temp. max water/steam			°C		°F	
temp. max hot air			°C	300 short	°F	572 short

\* 24h 70°C 25% def. \*\* 24h 100°C 25% def. \*\*\* 24h 150°C 25% def.

