

## MVQ

### Mechanical, Physical and Thermal Properties

Vinyl methyl silicone rubber

properties	condition	standard	unit		unit	
colour				blue		blue
hardness	23°C	ISO 868	Shore A	85 ± 5	Shore A	85 ± 5
modulus 100%	23°C	DIN 53 504	MPa	≥ 5	psi	≥ 725
tensile strength	23°C	DIN 53 504	MPa	≥ 7	psi	≥ 1015
elongation at break	23°C	DIN 53 504	%	100	%	100
tear strength	23°C	DIN ISO 34-1	kN/m	≥ 16,4	lbf/inch	≥ 90
spec. gravity	23°C	ISO 1183	kg/m <sup>3</sup>	1470	g/cm <sup>3</sup>	1,47
rebound elasticity	23°C	DIN 53 512	%	52	%	52
abrasion	23°C	DIN 53 516	mm <sup>3</sup>		mm <sup>3</sup>	
compression set	*	ISO 815	%	≤ 10	%	≤ 10
compression set	**	ISO 815	%	≤ 30	%	≤ 30
compression set	***	ISO 815	%		%	
minimum service temperature			°C	-60	°F	-76
maximum service temperature			°C	200	°F	392
temp. max water/steam			°C	110	°F	230
temp. max hot air, short			°C	300	°F	572

\* 24h 70°C 25% def.

\*\* 24h 100°C 25% def.

\*\*\* 24h 150°C 25% def.

## CHEMICAL PROPERTIES

Copolymer, based on methyl, vinyl and silicone

Resistant to: hot air, ozone, hot water and acetic acid

Not resistant to: aliphatic and aromatic hydrocarbons and esters

Foodstuff approval: With additional curing FDA compliant

Detailed information concerning chemical resistance see Chemical Resistance Guide

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