

SILICON - 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	≥ 4	psi	≥ 580
tensile strength	23°C	DIN 53 504	MPa	≥ 7	psi	≥ 1015
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 ³	1580	g/cm ³	1,58
rebound elasticity	23°C	DIN 53 512	%	35	%	35
abrasion	23°C	DIN 53 516	mm ³		mm ³	
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, short			°C	300	°F	572

* 24h 70°C 25% def.

** 24h 100°C 25% def.

*** 24h 150°C 25% def.

Chemische Eigenschaften

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