

# M03 - MVQ nature FDA

Vinyl methyl silicone rubber

## Mechanical, Physical and Thermal Properties

PROPERTIES	CONDITION	STANDARD	UNIT		UNIT	
Colour				transparent		transparent
hardness	23°C/3 sek.	ISO 868	Shore A	85 ± 5	Shore A	85 ± 5
hardness	23°C/15 sek	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	%	≥ 210	%	≥ 210
tear strength	23°C	DIN ISO 34-1	kN/m	≥ 8	lbf/inch	≥ 45
spec. gravity	23°C	ISO 1183	kg/m <sup>3</sup>	1225	g/cm <sup>3</sup>	1,22
rebound elasticity	23°C	DIN 53 512	%	38	%	38
abrasion		DIN 53 516	mm <sup>3</sup>		mm <sup>3</sup>	
compression set	*	ISO 815	%	≤ 14	%	≤ 14
compression set	**	ISO 815	%	≤ 22	%	≤ 22
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

FDA compliant in its active substances to § 177.2600, CFR 21  
“ Rubber Articles Intended for Repeated Use “