

M02 - MVQ White FDA

Vinyl methyl silicone rubber

Mechanical, Physical and Thermal Properties

PROPERTIES	CONDITION	STANDARD	UNIT		UNIT	
Colour				white		white
hardness	23°C/3 sek.	ISO 868	Shore A	85 ± 5	Shore A	85 ± 5
hardness	23°C/15 sek	ISO 868	Shore A	84 ± 5	Shore A	84 ± 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	lbf/inch	≥ 90
spec. gravity	23°C	ISO 1183	kg/m ³	1470	g/cm ³	1,47
rebound elasticity	23°C	DIN 53 512	%	52	%	52
abrasion		DIN 53 516	mm ³		mm ³	
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			°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”