

MATERIAL DATA SHEET

MVQ

GENERAL INFORMATION

MVQ is a methyl vinyl silicone rubber commonly known as Silicone. It has poor mechanical properties and is therefore mainly used in static applications. It is highly resistant to weathering, ozone and ageing and is used for applications in contact with foodstuff, hot air and mineral oils. MVQ has a high gas permeability. MVQ corresponds to foodgrade standards.

MECHANICAL | ELECTRICAL | THERMAL PROPERTIES

Colour:			rustbrown
Hardness at 20°:	DIN 53505	Shore A	85 +/-2
Density:	DIN ISO 1183-1	g/cm ³	1.51
100% Modulus:	DIN 53504	N/mm ²	> 5
300% Modulus:	DIN 53504	N/mm ²	> /
Tensile strength:	DIN 53504	N/mm ²	> 6
Elongation at break:	DIN 53504	%	> 180
Rebound resilience:	DIN 53512	%	> 50
Tear strength:	DIN ISO 34-1	N/mm ²	> 13
Abrasion:	DIN 53516	mm ³	< /
Compression set:*	DIN ISO 815-1	%	< /
Compression set:**	DIN ISO 815-1	%	< /
Compression set:***	DIN ISO 815-1	%	< /
Compression set:****	DIN ISO 815-1	%	< /
Compression set:*****	DIN ISO 815-1	%	< 13
Min. service temperature:		°C	- 60
Max. service temperature (short term):		°C	+ 200 (+230)

* Compression set @ 23°C, 72 hours, 10% deflexion
 ** Compression set @ 70°C, 24 hours, 20% deflexion
 *** Compression set @ 100°C, 24 hours, 20% deflexion
 **** Compression set @ 225°C, 22 hours, 10% deflexion
 ***** Compression set @ 175°C, 22 hours, 10% deflexion

REMARK

All test methods and values mentioned above are corresponding to ASTM | DIN | ISO standards and have been tested on standardized plates in the laboratory. All tests are made under laboratory conditions.