

MATERIAL DATASHEET

02-70-0086

Standard MVQ - Silicone rubber

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Description

Silicone rubbers (MVQ) differ from rubbers in that they are not purely organic compounds. Instead of the carbon atoms in the polymer chain of elastomers, silicones have alternating silicon and oxygen atoms. The silicone mixtures are put together very simply with inorganic fillers and a vulcanizing agent (usually an organic peroxide). In addition, color pigments are often used to give the basically transparent silicone a color. For very soft qualities, high-molecular silicone oils are used as plasticizers.

Properties

- Cold resistance to approx. -60 °C
- Cold flexibility due to polymer properties
- Very good resistance to ozone, ageing and weathering
- Excellent electrical insulation properties
- Not resistant to aromatic mineral oils, fuels, silicone oil and grease

Typical applications

- Food and beverage industry
- Physiologically safe
- X-ray applications
- Hot gas applications

Further information

Conformities

- REACH (1907/2006)
- RoHS (2011/65/EU)
- ADI-free

Technical data			
Color	red or transparent		
Hardness	DIN 53519	Shore A	70 ± 5
Specific density	DIN 53479	g/cm ³	1.25
Tensile strength	DIN 53504	MPa	4 – 10
Elongation at break	DIN 53504	%	100 – 600
Compression set during 22 h at +100 °C	DIN 53517 25 % deformation	%	20 – 50
Temperature		°C	-60 to +200

Reference to the author/disclaimer

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