

About VMQ

VMQ, also known as silicone rubber, is a synthetic elastomer that has become a popular material in many industries due to its unique properties and functionality.

VMQ features

1. Extreme temperature and weather resistance, excellent chemical resistance, oil resistance, water resistance, UV radiation resistance, making it a versatile and durable material suitable for a wide range of applications.
2. The flexibility and high tear strength of VMQ also make it an ideal material for the automotive and aerospace industries for gaskets, seals and hoses. Used in silicone implants and in contact with body fluids, it is an excellent material for medical devices.
3. Electrical insulation properties. Can withstand high pressure applications. Examples include cables and transformers.

VMQ application

VMQ is not recommended for dynamic or load bearing applications. This is because it tends to degrade under stress and tends to crack or deform over time. As such, it is often used in static applications such as gaskets and seals, where its unique properties can be fully utilized

Technical Data sheet of VMQ

Physical properties			
Property	Test standard	Value	Unit
Hardness	ISO48	60+/-5	IRHD
Elongation at break	ISO37	250	%
Tensile strength	ISO37	6.5	Mpa
Compression set-24 hours at 175°C Slab	ISO815	20	%
Low temperature resistance TR10	ISO 2921	-40	°C
Ageing properties			
Property	Test standard		
Hardness change	ISO 188	5	IRHD
Elongation at break change		-28	%
Tensile strength change		-16	%
Weight change		-2.35	%