

Silicone (VMQ) Red 60 ShA FDA

Silicone (VMQ)

Silicone (VMQ) rubber contains methyl and vinyl groups attached to the main silicone chain. Silicone O-rings are characterised by excellent resistance to temperature extremes and thermal cycling. Silicone rubber compound does not impart odour or taste, which makes it suitable for many food and pharmaceutical applications. Silicone rubber however, has poor mechanical properties as compared to other elastomers and for this reason silicone o-rings are generally not used in dynamic applications. Silicone has great resistance to animal/vegetable oil/grease, diluted salt solutions and high molecular weight chlorinated aromatic hydrocarbons. Silicone is not suitable for use with acids, alkalis, silicone-based lubricant or super-heated steam (over 121°C).

Colour: Red

Operating temperature range: -50°C to +230°C

| Physical Property | Test Method | Units | Typical Values |
|--|-------------|-------------------|----------------|
| | ASTM D2240 | ShA | 60 |
| Tensile Strength | ASTM D412 | MPa | 6.9 |
| Elongation | ASTM D412 | % | 249 |
| Specific Gravity | ASTM D297 | g/cm ³ | 1.219 |
| Compression Set 22h @ 175°C | ASTM D395B | % | 11 |
| Low Temperature | ASTM D2137 | °C | Non-Brittle |