

VMQ Silicone 714001 - Technical Data Sheet

1. Introduction

Peroxide cured, translucent silicone rubber, 65-75° IRHD. Silicone rubber having both Methyl and Vinyl substituent groups on the polymer chain. Silicone compound in conformity with USP XXIII class VI. Formulated using only those ingredients authorised by BGVV XVA and FDA CFR21 Section 177.2600.

2. Product Description

Chemical Composition :	Vinyl Methyl Silicone Rubber
Physical form :	O-Rings / Mouldings
Colour :	Transparent
Odour :	None
Storage stability* :	10 years

* : Following ISO 2230 conditions

3. Physical Properties

Test Method	Norm	Test Values
Hardness	ISO 48 Method M	70° ± 5° IRHD
Tensile Strength at break	ISO 37	9,5 MPa
Elongation at break	ISO 37	450%
Compression Set		
Method B - 24h/175°C	ISO 815	42%
Low temperature resistance	ISO 188	Non brittle after 3 minutes at -60°C
<i>Extraction results</i>	<i>Authorised limits</i>	<i>Material extracted</i>
<i>FDA regulation extraction tests</i>	<i>mg/dm²</i>	<i>grade 70</i>
first 7 hours	310	1
2 succeeding hours	15,5	<1
first 7 hours	2710	228
2 succeeding hours	62	35

4. Temperature Resistance

- -60° to +200°C

5. Chemical Resistance

SIP	: very good
CIP	: bad
Heat Aging	: excellent
Sterilisation	: excellent

6. Advantages

- Excellent mechanical, physical and chemical stability over the temperature range of -60° to +200°C.
- Excellent behaviour when sterilised.
- High transparency grade, intended for food contact, pharmaceutical and bio-medical applications.
- Certificates on demand.

7. Other information

- This compound is ADI (Animal Derived Ingredient Free).

