

VMQ-Silicone compound 714177 - Technical Data Sheet

1. Introduction

Silicone compound 714177 is a general purpose silicone with excellent physical and temperature resistance up to 220°C. Standard compound for O-Rings.

2. Product Description

<i>Chemical Composition</i>	: Silicone Rubber having both Methyl and Vinyl groups on the Polymer Chains
<i>Physical form</i>	: O-Rings / Mouldings
<i>Colour</i>	: Red
<i>Odour</i>	: None
<i>Storage stability *</i>	: 10 years

* : Following DIN 7716 conditions

3. Physical Properties

<i>Test Method</i>	<i>Norm</i>	<i>Test Values</i>
Hardness	DIN 53519	70° ± 5° IRHD
Tensile Strength at break	DIN 53504	min 7 MPa
Elongation at break	DIN 53504	min 300%
Specific Weight	ASTM D 1817	1,25
Compression Set	DIN 53517	
25% compression - 22h/150°C on slab	ASTM 395 B	max 20%
on O-Ring (3,53 mm)		max 40%
Heat Ageing 70h/100°C	DIN 53508	
Hardness Change		max +12°

4. Temperature Resistance

- -60° to +220°C

5. Chemical Resistance

Air	: excellent
Alcohol	: satisfactory
Hydrocarbons	: unsatisfactory
Fats	: good
Vegetable oils	: good
Silicone oils	: good
Ethers/esters	: unsatisfactory
Acids	: good
Steam	: poor at high temperatures; OK up to 130°C

6. Advantages

- Very low compression set
- Stock item for ca 2000 dimensions

7. Other Information

- AS dimensions are available in FDA 177.2600 compliant quality (class 1).
- Other colours on demand.
- Platinum cured USP class VI on demand.

This information is, to the best of our knowledge, accurate and reliable to the date indicated. The above mentioned data have been obtained by tests we consider as reliable. We don't assure that the same results can be obtained in other laboratories, using different conditions by the preparation and evaluation of the samples.