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

Chemical Composition	:	Silicone Rubber having both Methyl and Vinyl groups on the Polymer Chains
Physical form	:	O-Rings / Mouldings
Colour	:	Red
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	min 7 MPa
Elongation at break	ISO 37	min 300%
Specific Weight	ISO 2781	1,25
Compression Set	ISO 815	
25% compression - 22h/150°C	ISO 815	
on slab		max 20%
on O-Ring (3,53 mm)		max 40%
Heat Ageing 70h/100°C	ISO 188	
Hardness Change		max +12°

4. Temperature Resistance

- -60° to +220°C
- TR-10: -60°C

5. Chemical Resistance

Air	:	excellent
Alcohol	:	satisfacory
Hydrocarbons	:	unsatisfactory
Fats	:	good
Vegetable oils	:	good
Silicone oils	:	unsatisfactory
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 compound is ADI (Animal Derived Ingredient Free).

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.