



Marco Compound # S1185

70 Durometer, Red, Higher Temperature Silicone

Technical Datasheet

Common Names:

Silicone, VQM

General Description:

Silicones are excellent seal materials for extreme temperature in static applications. Silicones can be synthesized with a wide variety of properties and compositions. Please contact engineering@marcorubber.com for assistance in selecting a specialized compound when increased resistance to temperature, lubricants, or physical properties is required.

Features:

- Higher temperature resistance
- Excellent heat and compression resistance
- Excellent resistance to oxygen, ozone and sunlight
- Good chemical resistance
- Resistance to fungal and biological attack
- Flexible
- Good electrical insulation

Limitations:

- Not recommended for dynamic application
- Concentrated solvents, oils, concentrated acids, diluted sodium hydroxide.
- Poor abrasion resistance
- Low strength
- High gas permeability

Service Temperature:

-65 to 450°F (-54 to 232°C)

Specification:

ASTM D 2000 7GE707 A19 B37 EO36

PHYSICAL PROPERTY STANDARDS

ORIGINAL PROPERTIES	ASTM D2000 Requirements	Typical Test Results
Hardness, Shore A	70 +/- 5	72
Color	Red	Red
Tensile Strength, Psi	700	892
Ultimate Elongation, %	150	163

This information is to the best of our knowledge accurate and reliable. However, Marco Rubber makes no warranty, expressed or implied, that parts manufactured from this material will perform satisfactorily in the customer's application. It's the customer's responsibility to evaluate parts prior to use.

HEAT RESISTANCE – A19, ASTM D 573 (70 hrs. @ 437°F)	ASTM D2000 Requirements	Typical Test Results
Hardness Change, points, Shore A	+10	-2
Tensile Strength Change, %, max.	-30	-13
Ultimate Elongation Change, %, max.	-30	-26

COMPRESSION SET – B37, ASTM D 325 Method B (22 hrs. @ 347°F)	ASTM D2000 Requirements	Typical Test Results
Permanent Set, %, max.	25	16

FLUID RESISTANCE – IRM 903 Oil - EO36, ASTM D 471 (70 hrs. @ 302°F)	ASTM D2000 Requirements	Typical Test Results
Hardness Change, points, Shore A, max.	-40	-21
Volume Change, %, max.	+60	+33

This information is to the best of our knowledge accurate and reliable. However, Marco Rubber makes no warranty, expressed or implied, that parts manufactured from this material will perform satisfactorily in the customer's application. It's the customer's responsibility to evaluate parts prior to use.