

Marco Compound # S1004

40 Durometer, Orange, General Use 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 sales@marcorubber.com for assistance in selecting a specialized compound when increased resistance to temperature, lubricants, or physical properties is required.

Features:

- Low durometer
- 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

Cure System:

Peroxide

Service Temperature:

-75 to 400°F (-60 to 205°C)

Specification:

ASTM D2000 M2GE405 A19 B37 EO16 EO36

PHYSICAL PROPERTY STANDARDS

ORIGINAL PROPERTIES	ASTM D2000 Requirements	Typical Test Results
Hardness, Shore A	40 +/- 5	41
Color	Orange	Orange
Tensile Strength, psi	720	765
Ultimate Elongation, %	250	450

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HEAT RESISTANCE – A19, ASTM D 573 (70 hrs. @ 225°C)	ASTM D2000 Requirements	Typical Test Results
Hardness Change, points, Shore A	+10	+2
Tensile Strength Change, %, max.	-25	-20
Ultimate Elongation Change, %, max.	-30	-20

COMPRESSION SET – B37, ASTM D 325 Method B (22 hrs. @ 175°C)	ASTM D2000 Requirements	Typical Test Results
Permanent Set, %, max.	25	11

FLUID RESISTANCE –ASTM #1 Oil – EO16, ASTM D 471 (70 hrs. @ 150°C)	ASTM D2000 Requirements	Typical Test Results
Hardness Change, points, Shore A	0 to -10	-1
Tensile Strength Change, %, max.	-30	+5
Ultimate Elongation Change, %, max.	-30	+3
Volume Change, %	0 to 15	+8

FLUID RESISTANCE – ASTM #3 Oil, -EO36, ASTM D 471 (70 hrs. @ 150°C)	ASTM D2000 Requirements	Typical Test Results
Hardness Change, points, Shore A, max.	----	-7
Volume Change, %, max.	+ 60	+21

Date: 2016-7-1

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