Request a Quote

(800) 775-6525 Fax: (800) 421-2923
engineering@marcorubber.com
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Marco Compound # S1003
30 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 engineering@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:
-65 to 400° F (-54 to 205° C)

Specification:
ASTM D2000 M2GE303 A19 B37 EO16 EO36

PHYSICAL PROPERTY STANDARDS

ORIGINAL PROPERTIES	ASTM D2000 Requirements	Typical Test Results
Hardness, Shore A	30 +/- 5	26
Color	Orange	Orange
Tensile Strength, psi	432	630
Ultimate Elongation, %	300	600

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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	-23
Ultimate Elongation Change, %, max.	-30	+15

COMPRESSION SET – B37, ASTM D 325 Method B (22 hrs. @ 175°C)	**ASTM D2000 Requirements**	**Typical Test Results**
Permanent Set, %, max.	25	12

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	-5
Tensile Strength Change, %, max.	-30	-27
Ultimate Elongation Change, %, max.	-30	-20
Volume Change, %	0 to15	+2

FLUID RESISTANCE – IRM 903 Oil, -EO36, ASTM D 471 (70 hrs. @ 150°C)	**ASTM D2000 Requirements**	**Typical Test Results**
Hardness Change, points, Shore A, max.	-30	-13
Volume Change, %, max.	+ 60	+27