Request a Quote

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Marco Compound # S1011

70 Durometer, Orange, Compliant to ZZ-R-765E, CL-2B, GR-70

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:

- Compliant to ZZ-R-765E, Cl-2B, Gr-70
- 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:
-80 to 437° F (-62 to 225° C)

Specification:
ZZ-R-765E, CL-2B, GR-70

PHYSICAL PROPERTY STANDARDS

ORIGINAL PROPERTIES	Specification Requirements	Typical Test Results
Hardness, Shore A	70 +/- 5	68
Color	Orange	Orange
Tensile Strength, MPa	4.48	5
Ultimate Elongation, %	80	128
Specific Gravity		1.29

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HEAT RESISTANCE – (70 hrs. @ 225° C)	Specification Requirements	Typical Test Results
Hardness Change, points, Shore A	+/-10	+1
Tensile Strength Change, %, max.	-25	-8
Ultimate Elongation Change, %, max.	-40	-29

COMPRESSION SET Heat Aging @ (70 hrs. @ 150° C)	Specification Requirements	Typical Test Results
Permanent Set, %, max.	25	17.5

FLUID RESISTENCE, Water - (70 hrs. @ 100° C)	Specification Requirements	Typical Test Results
Volume Change, %	+/- 25	+17.5

LOW TEMPERATURE RESISTANCE, BRITTLE POINT	Specification Requirements	Typical Test Results
	-62.2 °C	NONBRITTLE