

Marco Compound # S1081

65 Durometer, Dark Gray, Conductive 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:

- Nickel coated graphite filled
- Electrically conductive
- Excellent heat and compression resistance
- Excellent resistance to oxygen, ozone and sunlight

Limitations:

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

Service Temperature:

-67 to 302° F (-55 to 150° C)

Typical Physical Properties

ORIGINAL PROPERTIES	Test Method	Typical Test Results
Conductive Filler		Nickel Graphite
Conductive Filler Abbreviation		Ni/C
Elastomer Binder		Silicone
Color		Dark Gray
Operating Temp Range, °C	ASTM D1329	-55/+150
Compression Set 70 hrs @ 100° C, %	ASTM D395	35
Durometer, Shore A	ASTM D2240	65
Tensile Strength, psi	ASTM D 412	150
Elongation, % Min	ASTM D 412	100
Tear Strength, lb/in (KN/M) Min	ASTM D 624	50 (8.75)
Specific Gravity (+/- 0.25)	ASTM D 792	2.00

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.

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SHIELDING EFFECTIVENESS	Test Method	Typical Test Results
100 MHz, dB Min	Mil-DTL 83528	100
500 MHz, dB Min	Mil-DTL 83528	100
2 GHz, dB Min	Mil-DTL 83528	100
10 GHz, dB Min	Mil-DTL 83528	100
Volume Resistivity	Mil-DTL 83528	.10

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