Request a Quote

MARCO RUBBER

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Marco Compound # S1173
70 Durometer, Gray, Conductive Silicone
Technical Datasheet

Common Names:
Silicone, VQM

General Description:
Silicones are excellent seal materials for extreme temperature in static applications. Marco compound S1173 is filled with nickel coated aluminum for electrical conductivity. 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 aluminum 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 257° F (-55 to 125° C)

Typical Physical Properties

ORIGINAL PROPERTIES	TEST METHOD	TYPICAL RESULTS
Conductive Filler	-----	Nickel coated Aluminum
Conductive Filler Abbreviation	-----	Ni/Al
Elastomer Binder	-----	Silicone
Color	-----	Gray
Compression Set, % (70 hrs @ 100° C)	ASTM D395	35
Durometer, Shore A	ASTM D2240	70
Tensile Strength, psi	ASTM D 412	150
Elongation, % (Min.)	ASTM D 412	100
Tear Strength, lb/in (Min.)	ASTM D 624	35
Specific Gravity, g/cc	ASTM D 792	2.00
Volume Resistivity, Ohms-cm	Mil-DTL 83528	.140