



## Marco Compound # S1093

### 30 Durometer, Black, 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](mailto:engineering@marcorubber.com) for assistance in selecting a specialized compound when increased resistance to temperature, lubricants, or physical properties is required.

#### **Features:**

- 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

#### **Service Temperature:**

-75 to 400° F (-60 to 205° C)

#### **Specification:**

ASTM

#### PHYSICAL PROPERTY STANDARDS

ORIGINAL PROPERTIES	ASTM	ASTM Requirements	Typical Test Results
Hardness, Shore A	D2240	30 +/- 5	33
Color		Black	Black
Tensile Strength, Mpa	D412		4.7
Ultimate Elongation, %	D412		662
Specific Gravity (g/cm <sup>3</sup> )			1.16

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.

<b>HEAT RESISTANCE – ASTM D573 (70 hrs. @ 180°C)</b>		<b>Typical Test Results</b>
Hardness Change, points, Shore A		8
Tensile Strength Change, %		-12
Ultimate Elongation Change, %, max.		-33

<b>COMPRESSION SET – ASTM D395 (24 hrs. @ 180°C)</b>	<b>ASTM Requirements</b>	<b>Typical Test Results</b>
Permanent Set, %, max.	25	19

<b>LOW TEMPERATURE RESISTANCE – ASTM D2137</b>		<b>Typical Test Results</b>
Low temperature resistance -50°C		Pass

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