Request a Quote

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# Marco Compound # S1126
## 70 Durometer, White, FDA, 3-A Sanitary
## 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. Marco compound S1126 is FDA and 3-A Sanitary compliant for use in the food industry. Please contact 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
- Manufactured and packaged in a clean room

**Limitations:**
- Poor abrasion resistance, not recommended for dynamic application
- Concentrated solvents, oils, concentrated acids, diluted sodium hydroxide.
- High gas permeability

**Service Temperature**:
-65 to 400° F (-54° to 204°C)

**Specification**:
A-A-59588 Class 2a & 2b Grade 70
3-A Sanitary Standards 18-03 Class III & IV
FDA CFR 21 177.2600

TYPI

| ORIGINAL PROPERTIES | Typical Test Results |
|---|---|
| Material Hardness, Shore A | 70 |
| Color | White |
| Tensile Strength, MPa (psi) | 8.1 (1169) |
| Modulus @ 100% Elongation, MPa (psi) | 2.7 (369) |
| Ultimate Elongation | 280 |
| Specific Gravity, g/cm | 1.20 |

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| **COMPRESSION SET –** ASTM D 325 Method B (22 hrs. @ 175°C) | **Typical Test Results** |
|---|---|
| Permanent Set, %, max. | 12.2 |

| **COMPRESSION SET –** ASTM D 325 Method B (70 hrs. @ 150°C) | **Typical Test Results** |
|---|---|
| Permanent Set, %, max. | 11.6 |

| **HEAT RESISTANCE –** ASTM D 573 (70 hrs. @ 200°C) | **Typical Test Results** |
|---|---|
| Hardness Change, points, Shore A | +2 |
| Tensile Strength Change, % | -1.1 |
| Ultimate Elongation Change, % | -2.5 |

| **FLUID RESISTANCE, Water –** ASTM D 471 (70 hrs. @ 100°C) | **Typical Test Results** |
|---|---|
| Hardness Change, points, Shore A | +2 |
| Volume Change, % | +0.3 |

| **FLUID RESISTANCE –ASTM #1 Oil -** ASTM D 471 (70 hrs. @ 150°C) | **Typical Test Results** |
|---|---|
| Hardness Change, points, Shore A | -3 |
| Tensile Strength Change, %, max. | -9.7 |
| Ultimate Elongation Change, %, max. | -9.5 |
| Volume Change, % | +2.7 |

| **FLUID RESISTANCE –ASTM #3 Oil -** ASTM D 471 (70 hrs. @ 150°C) | **Typical Test Results** |
|---|---|
| Hardness Change, points, Shore A | -16 |
| Volume Change, % | +42.7 |

| **LOW TEMPERATURE RESISTANCE –** ASTM D 2137 Method A, 9.3.2 | **Typical Test Results** |
|---|---|
| Non-brittle after 3 min. @ -55° C | Pass |