Request a Quote

(800) 775-6525
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www.marcorubber.com

Marco Compound # S1002
70 Durometer, Orange, Mil Spec Compliant
Technical Datasheet

Common Names:
Silicone, VQM

General Description:
Silicones are excellent seal materials for extreme temperature in static applications. Marco compound S1002 is specifically formulated to meet AMS 3304; A-A-59588 (ZZ-R-765). Silicones can be synthesized with a wide variety of properties and compositions. Please contact sales@marcorubber.com for assistance in selecting a specialized compound when increased resistance to temperature, lubricants, or physical properties is required.

Features:
- Meets AMS 3304; A-A-59588 (ZZ-R-765) CL 2A, 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

Service Temperature:
-85 to 400° F (-62 to 204° C)

PHYSICAL PROPERTY STANDARDS

ORIGINAL PROPERTIES	AMS 3304 / A-A-59588 Requirements	Typical Test Results
Hardness, Shore A	70 +/- 5	72
Color	Orange	Orange
Tensile Strength, psi	650 Min.	1055
Ultimate Elongation, %	125 Min.	257
Specific Gravity, g/cc	-----	1.28

COMPRESSION SET – ASTM D 325 Method B (22 hrs. @ 175°C)	AMS 3304 / A-A-59588 Requirements	Typical Test Results
Permanent Set, % Max.	25	18

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AIR AGING – ASTM D 573 (70 hrs. @ 437°F)	**AMS 3304 / A-A-59588 Requirements**	**Typical Test Results**
Hardness Change, pts Shore A	± 10	+5
Tensile Strength Change, %	-25 Max.	-16
Elongation Change, %	-40 Max.	-20

LOW TEMPERATURE RESISTANCE – ASTM D 2137 Method A, 9.3.2	**AMS 3304 / A-A-59588 Requirements**	**Typical Test Results**
Non-brittle after 3 min. @ -65° C	Pass	Pass

Date: 2016-7-1