Request a Quote

(800) 775-6525 Fax: (800) 421-2923
engineering@marcorubber.com
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Marco Compound # S1041
70 Durometer, Orange, Low Temperature Compound
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:
- Lowest temperature Silicone
- Excellent heat and compression resistance
- Excellent resistance to oxygen, ozone and sunlight
- 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

Cure System:
Peroxide

Service Temperature:
-103 to 400° F (-70 to 205° C)

Specification:
Compliant to A-A-59588 (ZZ-R-765) Class 1A, 1B, Grade 70

PHYSICAL PROPERTY STANDARDS

ORIGINAL PROPERTIES	Specification Requirements	Typical Test Results
Hardness, Shore A	70 +/- 5	68
Color	Orange	Orange
Tensile Strength, psi, ASTM D412 Die C	595	1190
Ultimate Elongation, %	150	370
Specific Gravity, ASTM D297	As Determined	1.25

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TEAR STRENGTH - ASTM D624 Die B	**Specification Requirements**	**Typical Test Results**
Tear Strength, ppi	Not Required	182

COMPRESSION SET – ASTM D395 Method B (22 hrs. @ 175°C)	**Specification Requirements**	**Typical Test Results**
Permanent Set, %, max. (22 hrs @ 100° C, 1A)	40 max.	18
Permanent Set, %, max. (70 hrs @ 150° C, 1B)	40 max.	38

AIR AGING – ASTM D573 (70 hrs. @ 225°C)	**Specification Requirements**	**Typical Test Results**
Hardness Change, points, Shore A	+/- 15	+6
Tensile Strength Change, %, max.	-30	-16
Ultimate Elongation Change, %, max.	-50	-29

LOW TEMPERATURE BRITTLENESS – ASTM D 2137	**Specification Requirements**	**Typical Test Results**
Non-brittle after 3 min. @ -75° C	No cracks	Pass
Actual Brittle Point, °C	Not required	-115