

Marco Compound # S1083

70 Durometer, Translucent, Platinum Cured, FDA & USP Class VI Compliant 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 sales@marcorubber.com for assistance in selecting a specialized compound when increased resistance to temperature, lubricants, or physical properties is required.

Features:

- FDA & USP Class VI compliant
- Excellent heat and compression resistance
- Excellent resistance to oxygen, ozone and sunlight
- Good chemical resistance
- Resistance to fungal and biological attack
- Available in lower durometers
- Platinum cure

Limitations:

- Not recommended for dynamic application
- Concentrated solvents, oils, concentrated acids, diluted sodium hydroxide.
- Poor abrasion resistance
- Low strength
- High gas permeability

Cure System:

Platinum

Service Temperature:

-65 to 400° F

Specification:

ASTM D2000 M5GE706 G11 A19 B37 EA14 F19

PHYSICAL PROPERTY STANDARDS

ORIGINAL PROPERTIES	ASTM D2000 Requirements	Typical Test Results
Hardness, Shore A	70 +/- 5	71
Color	Translucent	Translucent
Tensile Strength, psi	870 min.	1,340
Ultimate Elongation, %	150 min.	600

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.

HEAT RESISTANCE – A19, ASTM D 573 (70 hrs. @ 225°C)	ASTM D2000 Requirements	Typical Test Results
Hardness Change, points, Shore A	+10	-3
Tensile Strength Change, %, max.	-25	-24
Ultimate Elongation Change, %, max.	-30	-5

COMPRESSION SET – B37, ASTM D 325 Method B (22 hrs. @ 175°C)	ASTM D2000 Requirements	Typical Test Results
Permanent Set, %, max.	25	12.5

WATER RESISTANCE – EA14, ASTM D 471-06 (70 hrs. @ 100°C)	ASTM D2000 Requirements	Typical Test Results
Hardness Change, points, Shore A	0 to -15	-3
Tensile Strength Change, %, max.	-20	-10
Ultimate Elongation Change, %, max.	-20	-6
Volume Change, %	0 to 10	+7

LOW TEMPERATURE BRITTLENESS POINT- F19, ASTM D2137-94 (3 min. @ -55° C)	ASTM D2000 Requirements	Typical Test Results
Non-Brittle	Pass	Pass

Date: 2016-7-1

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