

Silicones are excellent seal materials for extreme temperature in static applications. Please contact engineering@marcorubber.com for assistance in selecting a specialized compound when increased resistance to temperature, lubricants, or physical properties is required.

ABOUT #S1005

S1005 is a 50A, general use silicone material. Silicones can be synthesized with a wide variety of properties and compositions.

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

APPLICATION EXAMPLES

- Extreme hot & cold applications
- Outdoor weathering applications

ADDITIONAL INFORMATION

- Service Temperature of -65° to 400°F
- Cure System: Peroxide
- Spec: ASTM 2000 M5GE506 A19 B37 E016 E036

This information is accurate and reliable to the best of our knowledge. However, Marco Rubber makes no warranty, expressed or implied, that parts manufactured from this material will perform satisfactorily in the customer's application. It is the customer's responsibility to evaluate parts prior to use.

PHYSICAL PROPERTIES

ORIGINAL PROPERTIES	ASTM D2000 Requirements	Typical Test Results
Hardness, Shore A	50 +/- 5	50
Color	Orange	Orange
Tensile Strength, MPa, psi	6.0 (865)	6.7 (965)
Ultimate Elongation, %	250	380
HEAT RESISTANCE – A19, ASTM D 573 (70 hrs. @ 225°C)	ASTM D2000 Requirements	Typical Test Results
Hardness Change, points, Shore A	10	6
Tensile Strength Change, %, max.	-25	-13
Ultimate Elongation Change, %, max.	-30	-28
COMPRESSION SET – B37, ASTM D 325 Method B (22 hrs. @ 175°C)	ASTM D2000 Requirements	Typical Test Results
Permanent Set, %, max.	25	10
FLUID RESISTANCE – ASTM #1 Oil – E016, ASTM D 471 (70 hrs. @ 150°C)	ASTM D2000 Requirements	Typical Test Results
Hardness Change, points, Shore A	0 to -15	-8
Tensile Strength Change, %, max.	-20	-13
Ultimate Elongation Change, %, max.	-20	-8
Volume Change, %	0 to 10	7
FLUID RESISTANCE – IRM 903 Oil, -E036, ASTM D 471 (70 hrs. @ 150°C)	ASTM D2000 Requirements	Typical Test Results
Hardness Change, points, Shore A, max.	-30	-10
Volume Change, %, max.	60	29