

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 #S1083

S1083 is a medical grade, USP Class VI and FDA compliant material. It is manufactured and packaged in a clean room environment.

FEATURES

- USP Class VI and FDA Compliance
- Excellent heat and compression resistance
- Excellent resistance to oxygen, ozone and sunlight
- Good chemical resistance
- Resistance to fungal and biological attack
- Platinum cure

APPLICATION EXAMPLES

- Medical applications
- Food applications
- Extreme hot & cold applications

ADDITIONAL INFORMATION

- Service Temperature of -65° to 400°F
- Cure System: Platinum
- Spec: ASTM D2000 M5GE706 G11 A19 B37 EA14 F19

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	Typical Test Results
Hardness, Shore A	70 +/- 5	71
Color	Clear	Clear
Tensile Strength, psi	870 min.	1340
Ultimate Elongation, %	150 min.	600
HEAT RESISTANCE – A19, ASTM D 573 (70 hrs. @ 225°C)	ASTM D2000	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	Typical Test Results
Permanent Set, %, max.	25	12.5
WATER RESISTANCE – EA14, ASTM D 471-06 (70 hrs. @ 100°C)	ASTM D2000	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 BRITTLINESS POINT- F19, ASTM D2137-94 (3 MINUTES AT -55°C)	ASTM D2000	Typical Test Results
Non-Brittle	PASS	PASS