

Compound

19811SILICONE
80 DUROMETER
SALMON COLOR**PRODUCT DATA SHEET**

Compound 19811 is an 80 durometer salmon colored general purpose Silicone elastomer. It exhibits good resistance to heat and compression set, it has excellent low temperature flexibility.

This compound will meet or exceed the specifications listed and has the following physical properties:

ASTM D2000 5 GE 809 A19 B37 EO16 EO36 F19 G11 EA14

AMS 3305E
ZZ-R-765 Class 2a & 2b Grade 80
A-A-59588 Class 2a & 2b Grade 80**Original Properties**

Modulus @ 100% Elongation	989 psi	6.8 MPa
Tensile Strength	1291 psi	8.9 MPa
Ultimate Elongation	146 %	
Hardness, Shore A	82 Durometer	
Specific Gravity	1.30 grams/cc	
Brittleness Temperature	< -104 °F	< -76 °C
Tear Resistance, Die B	68 ppi	11.9 kN/m

Compression Set

Solid: 22 hrs @ 347°F (175°C)	10.4 %
Solid: 70 hrs @ 302°F (150°C)	11.5 %
Plied: 22 hrs @ 212°F (100°C)	12.4 %
Plied: 22 hrs @ 347°F (175°C)	12.2 %
Plied: 70 hrs @ 302°F (150°C)	17.7 %

HEAT AGED: 70 hrs @ 437°F (225°C)

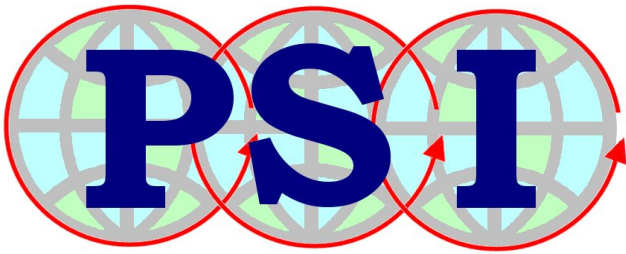
Change - Tensile Strength	- 19.6 %
Change - Elongation	- 22.6 %
Change - Hardness, Shore A	+ 5
Change - Volume	- 3.1 %

HEAT AGED: 22 hrs @ 437°F (225°C)

Change - Tensile Strength	- 11.9 %
Change - Elongation	- 17.1 %
Change - Hardness, Shore A	+ 4
Change - Volume	- 2.3 %

DISTILLED WATER AGED: 70 hrs @ 212°F (100°C)

Change - Tensile Strength	- 10.5 %
Change - Elongation	+ 2.7 %
Change - Hardness, Shore A	0
Change - Volume	+ 0.2 %



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ASTM OIL #1: 70 hrs @ 212°F (100°C)

Change - Tensile Strength	- 4.7 %
Change - Elongation	- 11.6 %
Change - Hardness, Shore A	- 3
Change - Volume	+ 2.3 %

ASTM OIL #1: 70 hrs @ 302°F (150°C)

Change - Tensile Strength	- 5.8 %
Change - Elongation	- 5.5 %
Change - Hardness, Shore A	- 3
Change - Volume	+ 2.3 %

ASTM OIL #1: 70 hrs @ 347°F (175°C)

Change - Tensile Strength	- 6.7 %
Change - Elongation	- 5.5 %
Change - Hardness, Shore A	- 3
Change - Volume	+ 2.2 %

ASTM OIL #3: 70 hrs @ 302°F (150°C)

Change - Tensile Strength	- 17.8 %
Change - Elongation	- 14.4 %
Change - Hardness, Shore A	- 19
Change - Volume	+ 31.3 %