

Compound  
**19801**  
SILICONE  
80 DURO SALMON COLOR  
LOW TEMPERATURE

**PRODUCT DATA SHEET**

Compound 19801 is an 80 duro salmon Silicone, it is formulated for extreme low temperature resistance. It exhibits good resistance to heat.

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

ASTM D2000 7 GE 807 A19 B37 EA14 EO36 F19 G11  
6 GE 804 A19 B37 EA14 EO36 F19 G11

ZZ-R-765 Class 1a & 1b Grade 80  
A-A-59588 Class 1a & 1b Grade 80

**Original Properties**

Modulus @ 100% Elongation	514 psi	3.5 MPa
Tensile Strength	825 psi	5.7 MPa
Ultimate Elongation	215 %	
Hardness, Shore A	80 Durometer	
Specific Gravity	1.62 grams/cc	
Brittleness Temperature	< -125 °F	< -87 °C
Tear Resistance, Die B	94 ppi	16.5 kN/m
Tear Resistance, Die C	79 ppi	13.8 kN/m

**Compression Set**

Plied: 22 hrs @ 212°F (100°C)	26.5 %
Plied: 22 hrs @ 347°F (175°C)	28.7 %
Plied: 70 hrs @ 302°F (150°C)	27.3 %

**HEAT AGED: 70 hrs @ 392°F (200°C)**

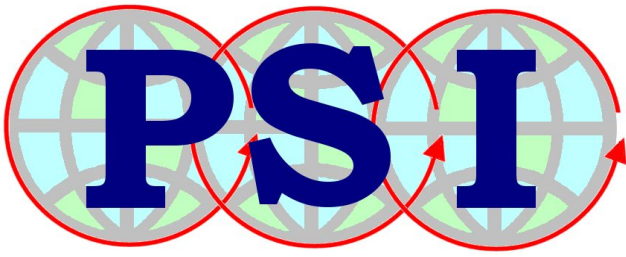
Change - Tensile Strength	+ 5.5 %
Change - Elongation	- 8.8 %
Change - Hardness, Shore A	+ 2

**HEAT AGED: 70 hrs @ 437°F (225°C)**

Change - Tensile Strength	+ 8.0 %
Change - Elongation	- 23.3 %
Change - Hardness, Shore A	+ 3

**HEAT AGED: 22 hrs @ 437°F (225°C)**

Change - Tensile Strength	+ 1.5 %
Change - Elongation	- 9.3 %
Change - Hardness, Shore A	+ 2



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

Change - Hardness, Shore A	+ 2
Change - Volume	+ 0.6 %

**ASTM OIL #1: 70 hrs @ 302°F (150°C)**

Change - Tensile Strength	- 2.1 %
Change - Elongation	- 23.3 %
Change - Hardness, Shore A	- 3
Change - Volume	+ 6.1 %

**ASTM OIL #1: 70 hrs @ 347°F (175°C)**

Change - Tensile Strength	- 0.1 %
Change - Elongation	- 20.9 %
Change - Hardness, Shore A	- 3
Change - Volume	+ 6.5 %

**ASTM OIL #3: 70 hrs @ 302°F (150°C)**

Change - Hardness, Shore A	- 25
Change - Volume	+ 47.5 %