

Compound

19511SILICONE
50 DUROMETER
SALMON COLOR**PRODUCT DATA SHEET**

Compound 19511 is a 50 durometer salmon colored general purpose Silicone elastomer. It exhibits good resistance to heat and compression set and will remain non brittle at very low temperatures.

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

ASTM D2000 3 GE 504 A19 B37 EO16 EO36 F19 EA14 G11
4 GE 507 A19 B37 EO16 EO36 F19 EA14
5 GE 507 A19 B37 EO16 EO36 F19 EA14

ZZ-R-765 Class 2a & 2b Grade 50
A-A-59588 Class 2a & 2b Grade 50
AMS 3302

Original Properties

Modulus @ 100% Elongation	220 psi	1.5 MPa
Tensile Strength	939 psi	6.5 MPa
Ultimate Elongation	341 %	
Hardness, Shore A	53 Durometer	
Specific Gravity	1.15 grams/cc	
Brittleness Temperature	< -103 °F	< -75 °C
Tear Resistance, Die B	49 ppi	8.6 kN/m
Tear Resistance, Die C	79 ppi	13.8 kN/m

Compression Set

Plied: 22 hrs @ 347°F (175°C)	6.3 %
Plied: 70 hrs @ 302°F (150°C)	8.2 %

HEAT AGED: 70 hrs @ 392°F (200°C)

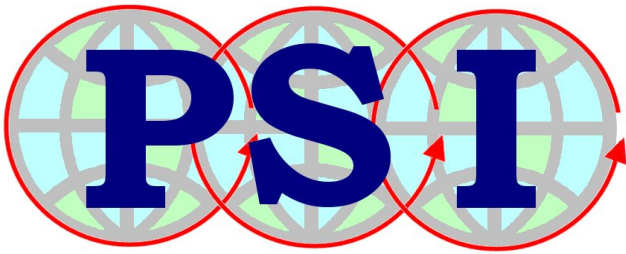
Change - Tensile Strength	+ 8.4 %
Change - Elongation	+ 7.6 %
Change - Hardness, Shore A	+ 2

HEAT AGED: 70 hrs @ 437°F (225°C)

Change - Tensile Strength	+ 7.0 %
Change - Elongation	+ 3.8 %
Change - Hardness, Shore A	+ 3

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

Change - Hardness, Shore A	- 1
Change - Volume	+ 0.5 %



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ASTM OIL #1: 70 hrs @ 302°F (150°C)

Change - Tensile Strength	+ 8.5 %
Change - Elongation	+ 13.5 %
Change - Hardness, Shore A	- 5
Change - Volume	+ 2.6 %

ASTM OIL #1: 70 hrs @ 347°F (175°C)

Change - Tensile Strength	- 8.4 %
Change - Elongation	- 8.6 %
Change - Hardness, Shore A	- 6
Change - Volume	+ 4.8 %

ASTM OIL #3: 70 hrs @ 302°F (150°C)

Change - Hardness, Shore A	- 20
Change - Volume	+ 44.6 %