



Compound

19513SILICONE
50 DURO - WHITE COLOR
FDA SANCTIONED MAT'Ls**PRODUCT DATA SHEET**

Compound 19513 is a 50 durometer white colored Silicone elastomer. It exhibits good resistance to heat and compression set and it will remain non brittle at very low temperatures. It is formulated with FDA sanctioned materials.

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
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
3-A Sanitary Standards No. 18-03 Class IV

Original Properties

Modulus @ 100% Elongation	146 psi	1.0 MPa
Tensile Strength	844 psi	5.8 MPa
Ultimate Elongation	430 %	
Hardness, Shore A	51 Durometer	
Specific Gravity	1.13 grams/cc	
Brittleness Temperature	< -103 °F	< -75 °C
Tear Resistance, Die B	106 ppi	18.6 kN/m

Compression Set

Solid: 22 hrs @ 347°F (175°C)	10.2 %
Solid: 70 hrs @ 302°F (150°C)	8.8 %
Plied: 22 hrs @ 347°F (175°C)	8.2 %

HEAT AGED: 70 hrs @ 347°F (175°C)

Change - Tensile Strength	+ 13.5 %
Change - Elongation	+ 4.7 %
Change - Hardness, Shore A	- 8
Change - Volume	+ 2.5 %

HEAT AGED: 70 hrs @ 392°F (200°C)

Change - Tensile Strength	+ 24.5 %
Change - Elongation	+ 16.3 %
Change - Hardness, Shore A	+ 1

HEAT AGED: 70 hrs @ 437°F (225°C)

Change - Tensile Strength	- 14.3 %
Change - Elongation	- 27.9 %
Change - Hardness, Shore A	+ 4



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

Change - Hardness, Shore A	- 1
Change - Volume	+ 0.4 %

ASTM OIL #1: 70 hrs @ 302°F (150°C)

Change - Tensile Strength	+ 11.6 %
Change - Elongation	+ 4.7 %
Change - Hardness, Shore A	- 8
Change - Volume	+ 3.2 %

ASTM OIL #3: 70 hrs @ 302°F (150°C)

Change - Hardness, Shore A	- 40
Change - Volume	+ 56.8 %