



Compound  
**19825**  
SILICONE  
80 DUROMETER  
WHITE COLOR

**PRODUCT DATA SHEET**

Compound 19825 is an 80 durometer white colored Silicone elastomer, using FDA approved materials. It exhibits good resistance to heat and compression set, it will remain flexible at low temperatures.

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

ASTM D2000 6 GE 804 A19 B37 EA14 EO36 F19

ZZ-R-765 Class 2b Grade 80  
A-A-59588 Class 2b Grade 80  
AMS 3305

**Original Properties**

Tensile Strength	1,034 psi	7.1 MPa
Ultimate Elongation	80 %	
Hardness, Shore A	83 Durometer	
Specific Gravity	1.43 grams/cc	
Brittleness Temperature	< -103 °F	< -75 °C
Tear Resistance, Die B	63 ppi	11.0 kN/m
Tear Resistance, Die C	79 ppi	13.8 kN/m

**Compression Set**

Plied: 22 hrs @ 347°F (175°C)	8.0 %
Plied: 70 hrs @ 302°F (150°C)	19.5 %

**HEAT AGED: 70 hrs @ 437°F (225°C)**

Change - Tensile Strength	+ 3.8 %
Change - Elongation	0.0 %
Change - Hardness, Shore A	+ 4

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

Change - Hardness, Shore A	+ 2
Change - Volume	+ 0.1 %

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

Change - Tensile Strength	+ 8.5 %
Change - Elongation	+ 12.5 %
Change - Hardness, Shore A	+ 1
Change - Volume	+ 2.5 %

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

Change - Tensile Strength	+ 7.3 %
Change - Elongation	+ 12.5 %
Change - Hardness, Shore A	0
Change - Volume	+ 3.3 %



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

Change - Hardness, Shore A  
Change - Volume

- 9  
+ 25.4 %