

Compound
19826
SILICONE
80 DUROMETER - GRAY COLOR
HIGH TEAR STRENGTH

PRODUCT DATA SHEET

Compound 19826 is an 80 durometer gray colored Silicone elastomer, it is formulated to have improved tear resistance. 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 B37 EA14 EO36 F19
7 GE 807 B37 EA14 EO36 F19
6 GE 804 B37 EA14 EO36 F19

Original Properties

Modulus @ 100% Elongation	443 psi	3.1 MPa
Tensile Strength	1322 psi	9.1 MPa
Ultimate Elongation	420 %	
Hardness, Shore A	79 Durometer	
Specific Gravity	1.25 grams/cc	
Brittleness Temperature	< -85 °F	< -65 °C
Tear Resistance, Die B	140 ppi	24.5 kN/m
Tear Resistance, Die C	144 ppi	25.2 kN/m

Compression Set

HEAT AGED: 70 hrs @ 392°F (200°C)

Change - Tensile Strength	- 6.3 %
Change - Elongation	- 22.5 %
Change - Hardness, Shore A	+ 3

HEAT AGED: 70 hrs @ 437°F (225°C)

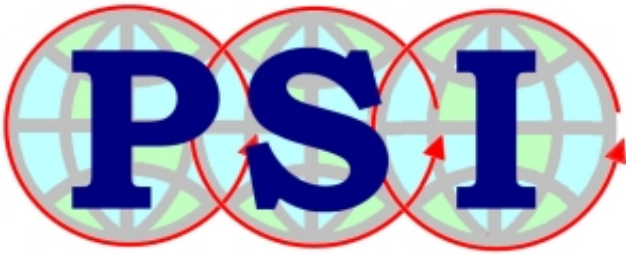
Change - Tensile Strength	- 28.6 %
Change - Elongation	- 48.7 %
Change - Hardness, Shore A	+ 5

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

Change - Hardness, Shore A	- 1
Change - Volume	+ 0.3 %
Change - Weight	+ 0.3 %

ASTM OIL #1: 70 hrs @ 302°F (150°C)

Change - Tensile Strength	- 11.1 %
Change - Elongation	- 21.3 %
Change - Hardness, Shore A	- 5
Change - Volume	+ 4.3 %
Change - Weight	+ 2.7 %



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ASTM OIL #3: 70 hrs @ 302°F (150°C)

Change - Hardness, Shore A
Change - Volume
Change - Weight

- 24
+ 40.6 %
+ 29.4 %