



Compound

20862FLUROSILICONE
80 DUROMETER
BLUE COLOR**PRODUCT DATA SHEET**

Compound 20862 is an 80 durometer blue colored general purpose Fluorosilicone elastomer. It exhibits good resistance to heat, petroleum based oils and aromatic fuels, it also has excellent low temperature flexibility.

This compound has the following physical properties:

Original Properties

Modulus @ 100% Elongation	821 psi	5.7 MPa
Tensile Strength	974 psi	6.7 MPa
Ultimate Elongation	129 %	
Hardness, Shore A	80 Durometer	
Specific Gravity	1.63 grams/cc	
Brittleness Temperature	-61 °F	-52 °C
Tear Resistance, Die B	109 ppi	19.1 kN/m
Tear Resistance, Die C	73 ppi	12.8 kN/m

Compression Set

Plied: 22 hrs @ 347°F (175°C) 31.9 %

HEAT AGED: 70 hrs @ 392°F (200°C)

Change - Tensile Strength - 0.4 %
Change - Elongation - 34.1 %
Change - Hardness, Shore A + 3

HEAT AGED: 70 hrs @ 437°F (225°C)

Change - Tensile Strength + 1.7 %
Change - Elongation - 23.3 %
Change - Hardness, Shore A + 5

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

Change - Hardness, Shore A - 2
Change - Volume + 3.2 %

ASTM REFERENCE FUEL A: 70 hrs @ RT (73°F, 23°C)

Change - Tensile Strength - 18.4 %
Change - Elongation - 3.1 %
Change - Hardness, Shore A - 2
Change - Volume + 2.1 %

ASTM REFERENCE FUEL C: 70 hrs @ RT (73°F, 23°C)

Change - Tensile Strength - 28.2 %
Change - Elongation - 10.1 %
Change - Hardness, Shore A - 10
Change - Volume + 17.0 %



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ASTM OIL #1: 70 hrs @ 302°F (150°C)

Change - Tensile Strength	- 8.7 %
Change - Elongation	0.0 %
Change - Hardness, Shore A	0
Change - Volume	0.0 %

ASTM OIL #3: 70 hrs @ 302°F (150°C)

Change - Tensile Strength	- 19.2 %
Change - Elongation	- 3.1 %
Change - Hardness, Shore A	- 2
Change - Volume	+ 2.1 %