



Compound

20462**FLUORINATED SILICONE
40 DUROMETER
BLUE COLOR****PRODUCT DATA SHEET**

Compound 20462 is a 40 durometer blue colored fluorosilicone elastomer. It exhibits good resistance to petroleum based oils, heat and compression set. It has excellent low temperature flexibility.

This compound has the following physical properties:

Original Properties

Modulus @ 100% Elongation	141 psi	1.0 MPa
Tensile Strength	1160 psi	8.0 MPa
Ultimate Elongation	428 %	
Hardness, Shore A	45 Durometer	
Specific Gravity	1.41 grams/cc	
Brittleness Temperature	-85 °F	-65 °C
Tear Resistance, Die B	108 ppi	18.9 kN/m
Tear Resistance, Die C	75 ppi	13.1 kN/m

Compression Set

Plied: 22 hrs @ 347°F (175°C) 19.1 %

HEAT AGED: 70 hrs @ 392°F (200°C)

Change - Tensile Strength - 22.0 %
Change - Elongation - 21.0 %
Change - Hardness, Shore A + 4

HEAT AGED: 70 hrs @ 437°F (225°C)

Change - Tensile Strength - 44.7 %
Change - Elongation - 34.6 %
Change - Hardness, Shore A + 5

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

Change - Hardness, Shore A 0
Change - Volume + 1.9 %

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

Change - Tensile Strength - 35.4 %
Change - Elongation - 29.9 %
Change - Hardness, Shore A - 2
Change - Volume + 15.5 %

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

Change - Tensile Strength - 41.6 %
Change - Elongation - 41.6 %
Change - Hardness, Shore A - 5
Change - Volume + 25.8 %



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ASTM OIL #1: 70 hrs @ 302°F (150°C)

Change - Tensile Strength	- 11.8 %
Change - Elongation	- 13.1 %
Change - Hardness, Shore A	0
Change - Volume	+ 0.4 %

ASTM OIL #3: 70 hrs @ 302°F (150°C)

Change - Tensile Strength	- 24.3 %
Change - Elongation	- 19.6 %
Change - Hardness, Shore A	- 2
Change - Volume	+ 3.6 %