



Compound

8906FLUORINATED
HYDROCARBON - 90 DURO
BLACK COLOR**PRODUCT DATA SHEET**

Compound 8906 is a 90 durometer black colored Viton B elastomer. It exhibits excellent resistance to heat, compression set, petroleum based oils, aliphatic and aromatic fuels.

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

ASTM D2000 3 HK 915 A1-10 B37 B38 EF31 EO78
5 HK 915 A1-11 B38 EF31 EO78
7 HK 915 A1-10 A1-11 B31 B38 EF31 EO88

Original Properties

Modulus @ 100% Elongation	1017 psi	7.0 MPa
Tensile Strength	1757 psi	12.1 MPa
Ultimate Elongation	222 %	
Hardness, Shore A	90 Durometer	
Specific Gravity	1.87 grams/cc	
Brittleness Temperature	5 °F	-15 °C
Tear Resistance, Die B	227 ppi	39.8 kN/m
Tear Resistance, Die C	177 ppi	31.0 kN/m

Compression Set

Plied: 22 hrs @ RT (73°F, 23°C)	19.1 %
Plied: 22 hrs @ 347°F (175°C)	17.2 %
Plied: 22 hrs @ 392°F (200°C)	16.0 %

HEAT AGED: 70 hrs @ 482°F (250°C)

Change - Tensile Strength	+ 8.1 %
Change - Elongation	+ 22.1 %
Change - Hardness, Shore A	0

HEAT AGED: 70 hrs @ 527°F (275°C)

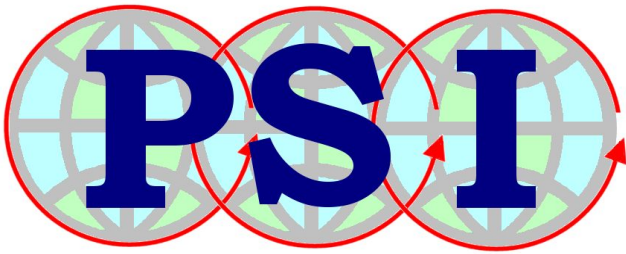
Change - Tensile Strength	- 1.3 %
Change - Elongation	- 13.5 %
Change - Hardness, Shore A	0

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

Change - Hardness, Shore A	- 2
Change - Volume	+ 0.4 %

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

Change - Tensile Strength	- 11.6 %
Change - Elongation	- 2.7 %
Change - Hardness, Shore A	- 1
Change - Volume	+ 1.6 %



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ASTM OIL #1: 70 hrs @ 302°F (150°C)

Change - Tensile Strength	- 3.1 %
Change - Elongation	+ 9.0 %
Change - Hardness, Shore A	0
Change - Volume	0.0 %

ASTM OIL #3: 70 hrs @ 302°F (150°C)

Change - Tensile Strength	- 13.4 %
Change - Elongation	- 0.5 %
Change - Hardness, Shore A	- 2
Change - Volume	+ 0.6 %

SERVICE FLUID 101: 70 hrs @ 392°F (200°C)

Change - Tensile Strength	- 31.8 %
Change - Elongation	+ 9.4 %
Change - Hardness, Shore A	- 5
Change - Volume	+ 4.7 %

STAUFFER BLEND 7700: 70 hrs @ 392°F (200°C)

Change - Tensile Strength	- 29.5 %
Change - Elongation	+ 10.8 %
Change - Hardness, Shore A	- 6
Change - Volume	+ 6.8 %