



Compound

9946FLUORINATED HYDROCARBON
90 DUROMETER
BLACK COLOR**PRODUCT DATA SHEET**

Compound 9946 is a 90 durometer black colored Fluorinated Hydrocarbon elastomer. It exhibits good resistance to heat, 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 EF31 EO88

**Original Properties**

Modulus @ 100% Elongation	1418 psi	9.8 MPa
Tensile Strength	1,722 psi	11.9 MPa
Ultimate Elongation	130 %	
Hardness, Shore A	95 Durometer	
Specific Gravity	1.83 grams/cc	
Brittleness Temperature	10 °F	-12 °C
TR-10 Temperature	-2 °F	-19 °C
Tear Resistance, Die B	200 ppi	35.0 kN/m
Tear Resistance, Die C	159 ppi	27.8 kN/m

Compression Set

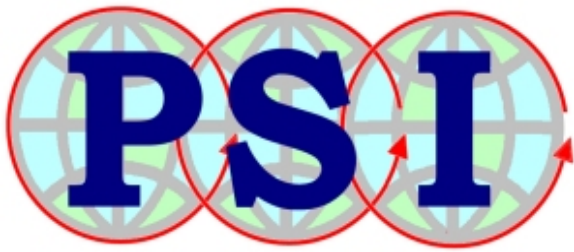
Plied: 22 hrs @ RT (73°F, 23°C)	22.3 %
Plied: 22 hrs @ 347°F (175°C)	18.1 %
Plied: 22 hrs @ 392°F (200°C)	22.0 %

HEAT AGED: 70 hrs @ 482°F (250°C)

Change - Tensile Strength	+ 3.4 %
Change - Elongation	- 15.4 %
Change - Hardness, Shore A	0

HEAT AGED: 70 hrs @ 527°F (275°C)

Change - Tensile Strength	- 26.2 %
Change - Elongation	0.0 %
Change - Hardness, Shore A	+ 1



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Change - Hardness, Shore A	- 3
Change - Volume	+ 2.2 %

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

Change - Tensile Strength	+ 0.3 %
Change - Elongation	0.0 %
Change - Hardness, Shore A	0
Change - Volume	+ 0.1 %

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

Change - Tensile Strength	- 6.8 %
Change - Elongation	- 7.7 %
Change - Hardness, Shore A	- 2
Change - Volume	+ 1.0 %

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

Change - Tensile Strength	- 6.3 %
Change - Elongation	0.0 %
Change - Hardness, Shore A	- 3
Change - Volume	+ 2.1 %

ASTM OIL #1 (IRM 901): 70 hrs @ 302°F (150°C)

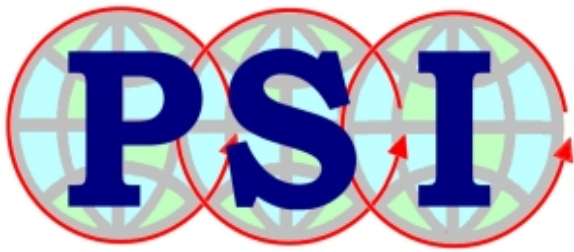
Change - Tensile Strength	+ 0.9 %
Change - Elongation	0.0 %
Change - Hardness, Shore A	- 1
Change - Volume	+ 0.2 %

ASTM OIL #3 (IRM 903): 70 hrs @ 302°F (150°C)

Change - Tensile Strength	- 5.5 %
Change - Elongation	0.0 %
Change - Hardness, Shore A	- 2
Change - Volume	+ 1.3 %

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

Change - Tensile Strength	- 13.6 %
Change - Elongation	0.0 %
Change - Hardness, Shore A	- 6
Change - Volume	+ 6.9 %



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

Change - Tensile Strength	- 14.6 %
Change - Elongation	- 7.7 %
Change - Hardness, Shore A	- 9
Change - Volume	+ 11.2 %