

Compound

**8746**FLUORINATED HYDROCARBON  
70 DUROMETER  
BLACK COLOR**PRODUCT DATA SHEET**

Compound 8746 is a 70 durometer black colored Fluorinated Hydrocarbon elastomer, it is formulated with DuPont Viton®. It exhibits good resistance to heat, compression set and petroleum based oils.

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

ASTM D2000 2 HK 815 A1-10 B37 B38 EF31 EO78 Z1  
4 HK 815 A1-11 B38 EF31 EO78 Z1  
6 HK 815 A1-10 A1-11 B31 B38 EF31 EO88 Z1

Z1 = Shore A Durometer 75 ± 5

**Original Properties**

Modulus @ 100% Elongation	611 psi	4.2 MPa
Tensile Strength	1,878 psi	12.9 MPa
Ultimate Elongation	230 %	
Hardness, Shore A	75 Durometer	
Specific Gravity	1.85 grams/cc	
Brittleness Temperature	-6 °F	-21 °C
Tear Resistance, Die B	137.0 ppi	24.0 kN/m
Tear Resistance, Die C	137.0 ppi	24.0 kN/m

**Compression Set**

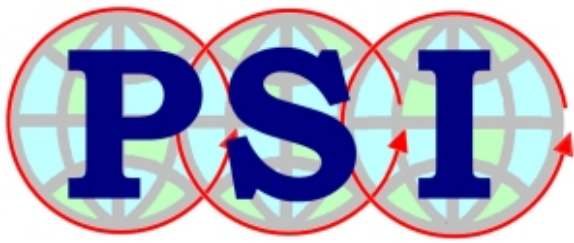
Plied: 22 hrs @ RT (73°F, 23°C)	10.0 %
Plied: 22 hrs @ 347°F (175°C)	7.9 %
Plied: 22 hrs @ 392°F (200°C)	9.8 %

**HEAT AGED: 70 hrs @ 482°F (250°C)**

Change - Tensile Strength	- 1.9 %
Change - Elongation	- 8.7 %
Change - Hardness, Shore A	+ 2

**HEAT AGED: 70 hrs @ 527°F (275°C)**

Change - Tensile Strength	- 18.1 %
Change - Elongation	+ 4.3 %
Change - Hardness, Shore A	+ 4



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Change - Hardness, Shore A	0
Change - Volume	+ 2.5 %

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

Change - Tensile Strength	- 1.7 %
Change - Elongation	0
Change - Hardness, Shore A	0
Change - Volume	+ 0.1 %

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

Change - Tensile Strength	- 12.0 %
Change - Elongation	- 4.3 %
Change - Hardness, Shore A	0
Change - Volume	+ 1.9 %

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

Change - Tensile Strength	- 20.1 %
Change - Elongation	- 8.7 %
Change - Hardness, Shore A	0
Change - Volume	+ 4.1 %

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

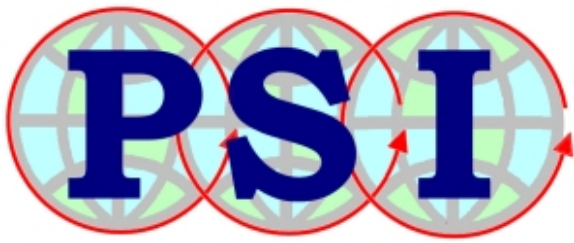
Change - Tensile Strength	+ 1.2 %
Change - Elongation	+ 4.3 %
Change - Hardness, Shore A	- 1
Change - Volume	+ 0.2 %

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

Change - Tensile Strength	- 6.8 %
Change - Elongation	+ 2.0 %
Change - Hardness, Shore A	- 2
Change - Volume	+ 1.7 %

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

Change - Tensile Strength	- 17.1 %
Change - Elongation	+ 4.3 %
Change - Hardness, Shore A	- 7
Change - Volume	+ 8.8 %



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

Change - Tensile Strength	- 24.1 %
Change - Elongation	0
Change - Hardness, Shore A	- 8
Change - Volume	+ 15.6 %