

Compound

8682FLUORINATED HYDROCARBON
65 DUROMETER
BLACK COLOR**PRODUCT DATA SHEET**

Compound 8682 is a 65 durometer black colored Viton® GF elastomer that is peroxide cured. It exhibits excellent resistance to a wide variety of chemicals including concentrated acids.

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

ASTM D2000 2 HK 620 A1-10 B37 B38 EF31 EO78
4 HK 620 A1-11 B38 EF31 EO78
6 HK 620 A1-10 A1-11 B31 EF31 EO88

**Original Properties**

Modulus @ 50% Elongation	167 psi	1.2 MPa
Modulus @ 100% Elongation	293 psi	2.0 MPa
Tensile Strength	2,476 psi	17.1 MPa
Ultimate Elongation	293 %	
Hardness, Shore A	65 Durometer	
Specific Gravity	1.95 grams/cc	
Brittleness Temperature	-33 °F	-36 °C
TR-10 Temperature	-6 °F	-21 °C
Tear Resistance, Die B	111.0 ppi	19.4 kN/m
Tear Resistance, Die C	98.0 ppi	17.2 kN/m

Compression Set

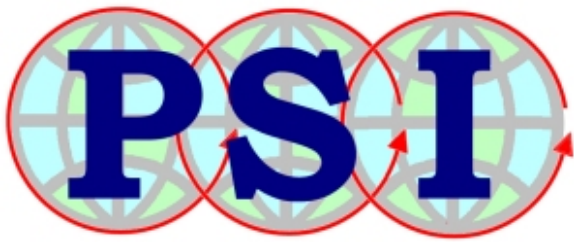
Plied: 22 hrs @ RT (73°F, 23°C)	8.4 %
Plied: 22 hrs @ 347°F (175°C)	11.4 %
Plied: 22 hrs @ 392°F (200°C)	12.2 %

HEAT AGED: 70 hrs @ 482°F (250°C)

Change - Tensile Strength	+ 5.1 %
Change - Elongation	+ 16.7 %
Change - Hardness, Shore A	- 1

HEAT AGED: 70 hrs @ 527°F (275°C)

Change - Tensile Strength	+ 4.7 %
Change - Elongation	+ 68.9 %
Change - Hardness, Shore A	- 2



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Change - Hardness, Shore A	- 2
Change - Volume	+ 3.6 %

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

Change - Tensile Strength	- 7.2 %
Change - Elongation	+ 2.0 %
Change - Hardness, Shore A	0
Change - Volume	+ 0.3 %

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

Change - Tensile Strength	- 25.6 %
Change - Elongation	- 8.2 %
Change - Hardness, Shore A	0
Change - Volume	+ 0.9 %

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

Change - Tensile Strength	- 17.1 %
Change - Elongation	- 3.1 %
Change - Hardness, Shore A	0
Change - Volume	+ 1.9 %

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

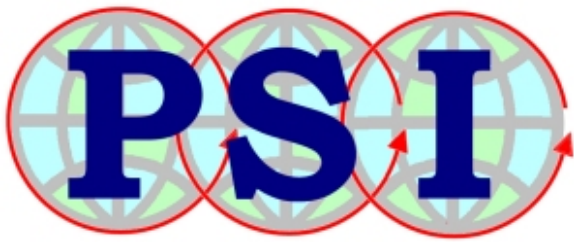
Change - Tensile Strength	- 3.7 %
Change - Elongation	+ 0.7 %
Change - Hardness, Shore A	- 1
Change - Volume	+ 0.9 %

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

Change - Tensile Strength	- 8.6 %
Change - Elongation	0.0 %
Change - Hardness, Shore A	- 1
Change - Volume	+ 2.8 %

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

Change - Tensile Strength	- 7.4 %
Change - Elongation	+ 3.4 %
Change - Hardness, Shore A	- 1
Change - Volume	+ 7.2 %



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

Change - Tensile Strength	- 11.6 %
Change - Elongation	+ 3.1 %
Change - Hardness, Shore A	- 3
Change - Volume	+ 8.7 %