

Compound

8780**FLUORINATED HYDROCARBON
75 DUROMETER
BLACK COLOR****PRODUCT DATA SHEET**

Compound 8780 is a 75 durometer black colored Viton GF. It exhibits excellent resistance to heat, petroleum based oils and aromatic fuels.

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

ASTM D2000 2 HK 715 A1-10 B37 B38 EF31 EO78 F15
4 HK 715 A1-11 B38 EF31 EO74
6 HK 715 A1-10 A1-11 EF31 EO88 F15

Original Properties

Modulus @ 100% Elongation	814 psi	5.6 MPa
Tensile Strength	1675 psi	11.5 MPa
Ultimate Elongation	213 %	
Hardness, Shore A	75 Durometer	
Specific Gravity	1.95 grams/cc	
Brittleness Temperature	-37 °F	-38 °C
Tear Resistance, Die B	153 ppi	26.8 kN/m

Compression Set

Plied: 22 hrs @ RT (73°F, 23°C)	18.2 %
Plied: 22 hrs @ 347°F (175°C)	28.2 %
Plied: 22 hrs @ 392°F (200°C)	36.5 %

HEAT AGED: 70 hrs @ 482°F (250°C)

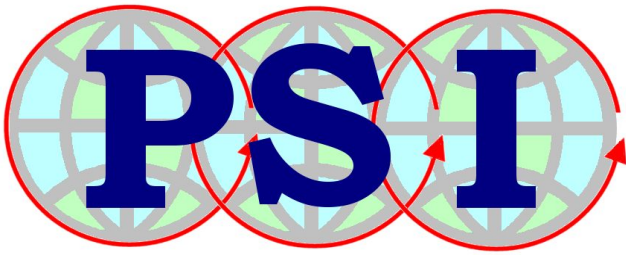
Change - Tensile Strength	+ 9.6 %
Change - Elongation	- 1.9 %
Change - Hardness, Shore A	- 1
Change - Volume	- 0.6 %

HEAT AGED: 70 hrs @ 527°F (275°C)

Change - Tensile Strength	+ 0.2 %
Change - Elongation	+ 5.6 %
Change - Hardness, Shore A	+ 1
Change - Volume	- 2.1 %

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

Change - Tensile Strength	- 18.0 %
Change - Elongation	+ 9.9 %
Change - Hardness, Shore A	- 2
Change - Volume	+ 4.4 %



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Change - Tensile Strength	+ 7.0 %
Change - Elongation	0.0 %
Change - Hardness, Shore A	- 1
Change - Volume	+ 0.3 %

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

Change - Tensile Strength	- 9.4 %
Change - Elongation	- 11.7 %
Change - Hardness, Shore A	- 4
Change - Volume	+ 2.7 %

ASTM OIL #1: 70 hrs @ 302°F (150°C)

Change - Tensile Strength	+ 11.0 %
Change - Elongation	- 4.2 %
Change - Hardness, Shore A	- 1
Change - Volume	+ 0.3 %

ASTM OIL #3: 70 hrs @ 302°F (150°C)

Change - Tensile Strength	+ 7.8 %
Change - Elongation	0.0 %
Change - Hardness, Shore A	- 2
Change - Volume	+ 1.5 %

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

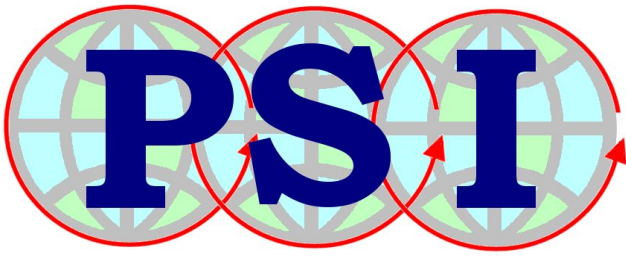
Change - Tensile Strength	- 9.3 %
Change - Elongation	+ 9.9 %
Change - Hardness, Shore A	- 5
Change - Volume	+ 6.3 %

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

Change - Tensile Strength	- 14.7 %
Change - Elongation	+ 5.6 %
Change - Hardness, Shore A	- 5
Change - Volume	+ 10.2 %

GSAHOL 70 hrs @ RT (70°F, 23°C)

Change - Tensile Strength	- 36.1 %
Change - Elongation	+ 1.9 %
Change - Hardness, Shore A	- 7
Change - Volume	+ 8.4 %



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METHANOL: Aged 70 hrs @ 148°F (65°C)

Change - Hardness, Shore A
Change - Volume

- 5
+ 4.0 %