



Compound
9746
FLUORINATED HYDROCARBON
70 DUROMETER
BLACK COLOR

PRODUCT DATA SHEET

Compound 9746 is a 70 durometer black colored general purpose fluoroelastomer. It exhibits very good resistance to heat, compression set, petroleum and synthetic based lubricants. It is also recommended for use in aromatic as well as non-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
4 HK 715 A1-11 B38 EF31 EO78
6 HK 715 A1-10 A1-11 B31 B38 EO88



Original Properties

Modulus @ 100% Elongation	519 psi	3.6 MPa
Tensile Strength	1,973 psi	13.6 MPa
Ultimate Elongation	280 %	
Hardness, Shore A	74 Durometer	
Specific Gravity	1.84 grams/cc	
Brittleness Temperature	-2 °F	-19 °C
TR-10 Temperature	-1 °F	-18 °C
Tear Resistance, Die B	204 ppi	35.7 kN/m

Compression Set

Plied: 22 hrs @ RT (73°F, 23°C)	14.8 %
Plied: 22 hrs @ 347°F (175°C)	8.7 %
Plied: 22 hrs @ 392°F (200°C)	11.7 %
Plied: 70 hrs @ 392°F (200°C)	25.0 %

HEAT AGED: 70 hrs @ 482°F (250°C)

Change - Tensile Strength	+ 2.7 %
Change - Elongation	0.0 %
Change - Hardness, Shore A	+ 2

HEAT AGED: 70 hrs @ 527°F (275°C)

Change - Tensile Strength	- 27.3 %
Change - Elongation	+ 14.3 %
Change - Hardness, Shore A	+ 3



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Change - Tensile Strength	- 6.6 %
Change - Elongation	+ 7.1 %
Change - Hardness, Shore A	0
Change - Volume	+ 3.2 %

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

Change - Tensile Strength	- 4.0 %
Change - Elongation	- 3.6 %
Change - Hardness, Shore A	0
Change - Volume	+ 0.1 %

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

Change - Tensile Strength	- 6.6 %
Change - Elongation	- 3.6 %
Change - Hardness, Shore A	- 1
Change - Volume	+ 1.7 %

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

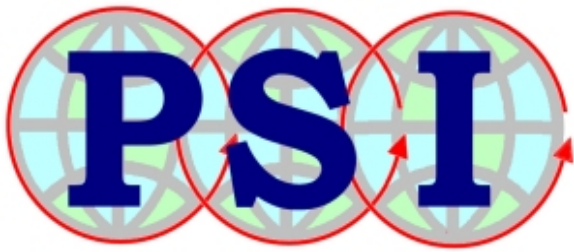
Change - Tensile Strength	- 9.3 %
Change - Elongation	- 3.6 %
Change - Hardness, Shore A	- 2
Change - Volume	+ 4.5 %

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

Change - Tensile Strength	+ 11.1 %
Change - Elongation	0.0 %
Change - Hardness, Shore A	0
Change - Volume	+ 0.2 %

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

Change - Tensile Strength	- 2.7 %
Change - Elongation	0.0 %
Change - Hardness, Shore A	- 1
Change - Volume	+ 1.4 %



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

Change - Tensile Strength	- 10.9 %
Change - Elongation	- 3.6 %
Change - Hardness, Shore A	- 7
Change - Volume	+ 9.3 %

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

Change - Tensile Strength	- 14.2 %
Change - Elongation	0.0 %
Change - Hardness, Shore A	- 13
Change - Volume	+ 16.6 %

SULFURIC ACID : AGED 70 hrs @ 212°F (100°C)

Change - Hardness, Shore A	0
Change - Volume	+ 0.4 %
Change - Weight	+ 0.3 %

TOLUENE : AGED 70 hrs @ RT (70°F, 23°C)

Change - Tensile Strength	- 29.6 %
Change - Elongation	- 17.9 %
Change - Hardness, Shore A	- 8
Change - Volume	+ 12.5 %