

Compound

**9744**FLUORINATED HYDROCARBON  
75 DUROMETER - BLACK COLOR  
FDA APPROVED MATERIALS**PRODUCT DATA SHEET**

Compound 9744 is 75 durometer black colored Fluorocarbon elastomer, it is formulated with FDA sanctioned materials. It is also suitable for use in milk and edible oils. It exhibits good resistance to heat, petroleum based oils and aromatic fuels. The temperature range for compound 9744 is -15°F to 400°F.

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

ASTM D2000 2 HK 720 A1-10 B37 B38 C20 EF31 EO78 F15  
4 HK 720 A1-11 B38 C20 EF31 EO78  
6 HK 720 A1-10 A1-11 B38 C20 EF31 EO88 F15  
M6 HK 814 A1-10 B38 EF31 F15

3-A Sanitary Standards 18-03 Class I, II, III & IV  
CFR21 177.2600

**Original Properties**

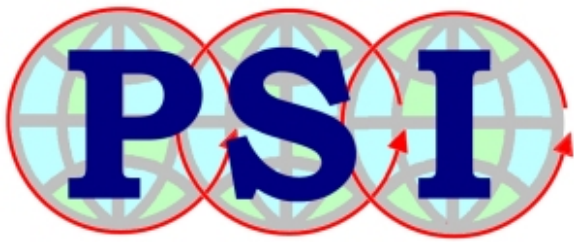
Modulus @ 100% Elongation	571 psi	3.9 MPa
Tensile Strength	2,408 psi	16.6 MPa
Ultimate Elongation	311 %	
Hardness, Shore A	75 Durometer	
Specific Gravity	1.84 grams/cc	
Brittleness Temperature	-14 °F	-26 °C
Tear Resistance, Die B	194.0 ppi	34.0 kN/m
Tear Resistance, Die C	167.0 ppi	29.2 kN/m

**Compression Set**

Plied: 22 hrs @ RT (73°F, 23°C)	21.0 %
Plied: 22 hrs @ 347°F (175°C)	12.8 %
Plied: 22 hrs @ 392°F (200°C)	15.0 %

**HEAT AGED: 70 hrs @ 482°F (250°C)**

Change - Tensile Strength	- 7.4 %
Change - Elongation	- 6.4 %
Change - Hardness, Shore A	0



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Change - Tensile Strength	- 21.3 %
Change - Elongation	+ 17.7 %
Change - Hardness, Shore A	0

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

Change - Hardness, Shore A	0
Change - Volume	+ 2.2 %

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

Change - Tensile Strength	- 4.6 %
Change - Elongation	- 2.3 %
Change - Hardness, Shore A	0
Change - Volume	0

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

Change - Tensile Strength	- 17.7 %
Change - Elongation	- 6.1 %
Change - Hardness, Shore A	0
Change - Volume	+ 1.7 %

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

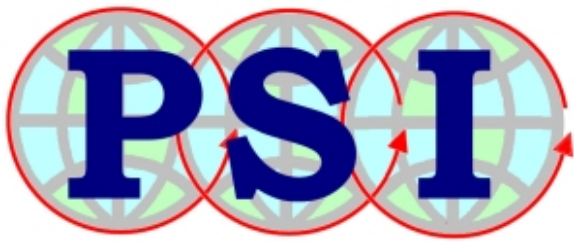
Change - Tensile Strength	- 18.0 %
Change - Elongation	+ 1.0 %
Change - Hardness, Shore A	- 2
Change - Volume	+ 4.3 %

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

Change - Tensile Strength	- 12.5 %
Change - Elongation	- 9.6 %
Change - Hardness, Shore A	0
Change - Volume	+ 0.1 %

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

Change - Tensile Strength	- 12.4 %
Change - Elongation	+ 4.5 %
Change - Hardness, Shore A	0
Change - Volume	+ 1.4 %



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

Change - Tensile Strength	- 23.4 %
Change - Elongation	+ 15.8 %
Change - Hardness, Shore A	- 6
Change - Volume	+ 10.0 %

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

Change - Tensile Strength	- 29.9 %
Change - Elongation	+ 5.8 %
Change - Hardness, Shore A	- 11
Change - Volume	+ 17.9 %