



Compound

**9944**FLUORINATED -  
HYDROCARBON - BLACK  
FDA SANCTIONED MAT'L**PRODUCT DATA SHEET**

Compound 9944 is a 90 durometer black colored fluorinated hydrocarbon elastomer, it is formulated with FDA sanctioned materials. It exhibits good resistance to heat, petroleum based oils, aliphatic and aromatic fuels.

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

ASTM D2000 3 HK 915 A1-10 B38 EF31 EO78  
5 HK 915 A1-11 B38 EF31 EO78  
7 HK 915 A1-10 A1-11 EF31 EO88

**Original Properties**

Modulus @ 100% Elongation	1279 psi	8.8 MPa
Tensile Strength	1706 psi	11.8 MPa
Ultimate Elongation	184 %	
Hardness, Shore A	95 Durometer	
Specific Gravity	1.84 grams/cc	
Brittleness Temperature	5 °F	-15 °C
Tear Resistance, Die B	331 ppi	58.0 kN/m
Tear Resistance, Die C	212 ppi	37.1 kN/m

**Compression Set**

Plied: 22 hrs @ 347°F (175°C) 33.3 %

**HEAT AGED: 70 hrs @ 482°F (250°C)**

Change - Tensile Strength - 1.8 %  
Change - Elongation - 2.2 %  
Change - Hardness, Shore A 0

**HEAT AGED: 70 hrs @ 527°F (275°C)**

Change - Tensile Strength - 11.7 %  
Change - Elongation + 20.1 %  
Change - Hardness, Shore A 0

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

Change - Hardness, Shore A - 2  
Change - Volume + 1.3 %

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

Change - Tensile Strength - 1.5 %  
Change - Elongation + 18.5 %  
Change - Hardness, Shore A - 2  
Change - Volume + 2.6 %



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

Change - Tensile Strength	+ 0.5 %
Change - Elongation	+ 15.2 %
Change - Hardness, Shore A	- 1
Change - Volume	+ 1.5 %

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

Change - Tensile Strength	+ 0.7 %
Change - Elongation	+ 23.9 %
Change - Hardness, Shore A	- 2
Change - Volume	+ 1.7 %

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

Change - Tensile Strength	- 13.5 %
Change - Elongation	+ 33.2 %
Change - Hardness, Shore A	- 5
Change - Volume	+ 9.0 %

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

Change - Tensile Strength	- 16.9 %
Change - Elongation	+ 37.0 %
Change - Hardness, Shore A	- 10
Change - Volume	+ 14.4 %