



Compound

**8648**FLUORINATED  
HYDROCARBON - 60 DURO  
BLACK - FDA APP.MAT**PRODUCT DATA SHEET**

Compound 8648 is a 60 durometer black colored Viton A elastomer, it is formulated with FDA approved materials. It exhibits excellent resistance to heat, compression set and petroleum based oils.

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

ASTM D2000 2 HK 610 A1-10 B37 B38 EO78 F15  
4 HK 610 A1-11 B38 EO78  
6 HK 610 A1-10 A1-11 B31 EO88 F15

3A Sanitary Standards Class I, II, III, IV.

**Original Properties**

Modulus @ 100% Elongation	360 psi	2.5 MPa
Tensile Strength	1404 psi	9.7 MPa
Ultimate Elongation	230 %	
Hardness, Shore A	65 Durometer	
Specific Gravity	1.84 grams/cc	
Brittleness Temperature	-15 °F	-26 °C
Tear Resistance, Die B	82 ppi	14.4 kN/m
Tear Resistance, Die C	94 ppi	16.5 kN/m

**Compression Set**

Plied: 22 hrs @ RT (73°F, 23°C)	9.4 %
Plied: 22 hrs @ 347°F (175°C)	4.6 %
Plied: 22 hrs @ 392°F (200°C)	8.6 %

**HEAT AGED: 70 hrs @ 482°F (250°C)**

Change - Tensile Strength	+ 4.3 %
Change - Elongation	- 11.3 %
Change - Hardness, Shore A	0

**HEAT AGED: 70 hrs @ 527°F (275°C)**

Change - Tensile Strength	- 0.6 %
Change - Elongation	- 2.2 %
Change - Hardness, Shore A	+ 2

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

Change - Hardness, Shore A	0
Change - Volume	+ 0.9 %



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Change - Tensile Strength	- 35.4 %
Change - Elongation	- 21.7 %
Change - Hardness, Shore A	- 1
Change - Volume	+ 3.5 %

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

Change - Tensile Strength	+ 16.8 %
Change - Elongation	+ 3.9 %
Change - Hardness, Shore A	0
Change - Volume	+ 0.6 %

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

Change - Tensile Strength	+ 1.8 %
Change - Elongation	- 2.6 %
Change - Hardness, Shore A	0
Change - Volume	+ 2.2 %

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

Change - Tensile Strength	- 17.0 %
Change - Elongation	- 3.0 %
Change - Hardness, Shore A	- 4
Change - Volume	+ 10.2 %

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

Change - Tensile Strength	- 25.3 %
Change - Elongation	- 10.4 %
Change - Hardness, Shore A	- 6
Change - Volume	+ 18.4 %