



Compound

**8847**FLUORINATED  
HYDROCARBON - 80 DURO  
BLACK - UL APPROVED**PRODUCT DATA SHEET**

Compound 8847 is an 80 durometer black colored Fluorinated Hydrocarbon elastomer. It exhibits excellent resistance to heat, compression set, petroleum and synthetic oils, aliphatic and aromatic fuels.

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

ASTM D2000 2 HK 820 A1-10 B37 B38 EF31 EO78  
4 HK 820 A1-11 B38 EF31 EO78  
6 HK 820 A1-10 A1-11 B38 EF31 EO88

UL Approved for use in gasoline, kerosene, #1 and #2 Fuel Oil, L-P, City and Manufactured Gas

**Original Properties**

Modulus @ 100% Elongation	723 psi	5.0 MPa
Tensile Strength	2458 psi	16.9 MPa
Ultimate Elongation	260 %	
Hardness, Shore A	81 Durometer	
Specific Gravity	1.85 grams/cc	
Brittleness Temperature	-6 °F	-21 °C
Tear Resistance, Die B	165 ppi	28.9 kN/m
Tear Resistance, Die C	159 ppi	27.8 kN/m

**Compression Set**

Plied: 22 hrs @ RT (73°F, 23°C)	17.2 %
Plied: 22 hrs @ 347°F (175°C)	9.9 %
Plied: 22 hrs @ 392°F (200°C)	11.4 %

**HEAT AGED: 70 hrs @ 482°F (250°C)**

Change - Tensile Strength	- 17.7 %
Change - Elongation	- 15.4 %
Change - Hardness, Shore A	0

**HEAT AGED: 70 hrs @ 527°F (275°C)**

Change - Tensile Strength	- 14.7 %
Change - Elongation	0.0 %
Change - Hardness, Shore A	+ 1

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

Change - Hardness, Shore A	- 3
Change - Volume	+ 2.8 %



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Change - Tensile Strength	- 10.0 %
Change - Elongation	- 3.8 %
Change - Hardness, Shore A	0
Change - Volume	+ 0.2 %

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

Change - Tensile Strength	- 27.3 %
Change - Elongation	- 19.2 %
Change - Hardness, Shore A	- 1
Change - Volume	+ 1.5 %

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

Change - Tensile Strength	- 18.6 %
Change - Elongation	- 11.5 %
Change - Hardness, Shore A	- 3
Change - Volume	+ 1.5 %

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

Change - Tensile Strength	- 11.8 %
Change - Elongation	- 7.7 %
Change - Hardness, Shore A	0
Change - Volume	+ 0.4 %

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

Change - Tensile Strength	- 12.1 %
Change - Elongation	- 7.7 %
Change - Hardness, Shore A	- 1
Change - Volume	+ 1.8 %

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

Change - Tensile Strength	- 14.0 %
Change - Elongation	0.0 %
Change - Hardness, Shore A	- 6
Change - Volume	+ 9.7 %

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

Change - Tensile Strength	- 15.0 %
Change - Elongation	+ 3.8 %
Change - Hardness, Shore A	- 11
Change - Volume	+ 16.8 %