



Compound

9848**FLUORINATED
HYDROCARBON - 75 DURO
BLACK-LOW COMP. SET****PRODUCT DATA SHEET**

Compound 9848 is a 75 durometer black colored high quality Fluorinated Hydrocarbon elastomer, it is formulated for excellent resistance to heat and compression set. It has very good resistance to a variety of petroleum and synthetic based lubricants, hydraulic fluids, aliphatic and aromatic fuels.

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

ASTM D2000 2 HK 815 A1-10 B37 B38 EF31 EO78
4 HK 815 A1-11 B38 EF31 EO78
6 HK 815 A1-10 A1-11 B31 B38 EF31 EO88

AMS 7278
AMS 7280

Original Properties

Modulus @ 100% Elongation	1081 psi	7.5 MPa
Tensile Strength	1889 psi	13.0 MPa
Ultimate Elongation	160 %	
Hardness, Shore A	78 Durometer	
Specific Gravity	1.78 grams/cc	
Brittleness Temperature	0 °F	-18 °C
Tear Resistance, Die B	180 ppi	31.5 kN/m

Compression Set

Plied: 22 hrs @ RT (73°F, 23°C)	6.5 %
Plied: 22 hrs @ 347°F (175°C)	3.5 %
Plied: 22 hrs @ 392°F (200°C)	5.2 %
Plied: 70 hrs @ RT (73°F, 23°C)	9.3 %
Plied: 166 hrs @ 347°F (175°C)	7.6 %

HEAT AGED: 70 hrs @ 482°F (250°C)

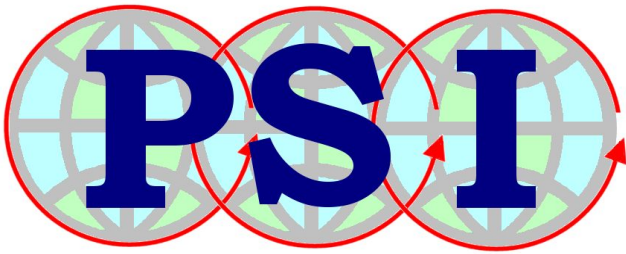
Change - Tensile Strength	+ 11.3 %
Change - Elongation	- 6.3 %
Change - Hardness, Shore A	+ 1

HEAT AGED: 70 hrs @ 527°F (275°C)

Change - Tensile Strength	+ 0.2 %
Change - Elongation	+ 6.3 %
Change - Hardness, Shore A	+ 1
Change - Volume	- 4.5 %

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

Change - Tensile Strength	- 8.3 %
Change - Elongation	0.0 %
Change - Hardness, Shore A	0
Change - Volume	+ 0.2 %



Compound

9848FLUORINATED
HYDROCARBON - 75 DURO
BLACK-LOW COMP. SET**PRODUCT DATA SHEET****ASTM REFERENCE FUEL B: 70 hrs @ RT (73°F, 23°C)**

Change - Tensile Strength	- 15.0 %
Change - Elongation	- 6.3 %
Change - Hardness, Shore A	- 1
Change - Volume	+ 1.5 %

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

Change - Tensile Strength	- 19.9 %
Change - Elongation	- 6.3 %
Change - Hardness, Shore A	- 1
Change - Volume	+ 3.3 %

ASTM OIL #3: 70 hrs @ 302°F (150°C)

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

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

Change - Tensile Strength	- 10.5 %
Change - Elongation	+ 12.5 %
Change - Hardness, Shore A	- 4
Change - Volume	+ 9.7 %

STAUFFER BLEND 7700: 70 hrs @ 347°F (175°C)

Change - Tensile Strength	- 17.0 %
Change - Elongation	0.0 %
Change - Hardness, Shore A	- 9
Change - Volume	+ 15.1 %

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

Change - Tensile Strength	- 14.7 %
Change - Elongation	0.0 %
Change - Hardness, Shore A	- 9
Change - Volume	+ 15.3 %