



Compound

9816**FLUORINATED
HYDROCARBON - 80 DURO
BLACK-ELECT. CONDUCT.****PRODUCT DATA SHEET**

Compound 9816 is an 80 durometer black colored Fluorinated hydrocarbonit is specifically formulated to be electrically conductive. It exhibits good resistance to petroleum based 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 B37 B38 EF31 EO78
4 HK 820 B38 EF31 EO78
6 HK 820 EF31

Original Properties

Modulus @ 100% Elongation	615 psi	4.2 MPa
Tensile Strength	2376 psi	16.4 MPa
Ultimate Elongation	420 %	
Hardness, Shore A	79 Durometer	
Specific Gravity	1.85 grams/cc	
Brittleness Temperature	-9 °F	-23 °C
Tear Resistance, Die B	209 ppi	36.6 kN/m

Compression Set

Plied: 22 hrs @ RT (73°F, 23°C)	36.4 %
Plied: 22 hrs @ 347°F (175°C)	31.7 %
Plied: 22 hrs @ 392°F (200°C)	31.1 %

HEAT AGED: 70 hrs @ 482°F (250°C)

Change - Tensile Strength	- 11.3 %
Change - Elongation	- 28.6 %
Change - Hardness, Shore A	+ 6

HEAT AGED: 70 hrs @ 527°F (275°C)

Change - Tensile Strength	- 24.8 %
Change - Elongation	- 31.0 %
Change - Hardness, Shore A	+ 10

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

Change - Tensile Strength	- 24.6 %
Change - Elongation	- 9.5 %
Change - Hardness, Shore A	- 5
Change - Volume	+ 5.7 %

ASTM OIL #1: 70 hrs @ 302°F (150°C)

Change - Tensile Strength	0.0 %
Change - Elongation	- 2.4 %
Change - Hardness, Shore A	0
Change - Volume	+ 0.7 %



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ASTM OIL #3: 70 hrs @ 302°F (150°C)

Change - Tensile Strength	- 5.2 %
Change - Elongation	+ 4.8 %
Change - Hardness, Shore A	- 3
Change - Volume	+ 4.5 %

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

Change - Tensile Strength	- 21.6 %
Change - Elongation	+ 4.8 %
Change - Hardness, Shore A	- 11
Change - Volume	+ 14.9 %

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

Change - Tensile Strength	- 29.4 %
Change - Elongation	- 4.8 %
Change - Hardness, Shore A	- 18
Change - Volume	+ 23.1 %