



Compound

8640FLUORINATED -
HYDROCARBON-60 DURO
BLACK COLOR**PRODUCT DATA SHEET**

Compound 8640 is a 60 durometer black colored general purpose fluorinated hydrocarbon elastomer. It exhibits good 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 B31 B38 EO78 F15
4 HK 610 A1-11 B38 EO78
6 HK 610 A1-10 A1-11 B31 B38 EO88 F15

Original Properties

Modulus @ 100% Elongation	400 psi	2.8 MPa
Tensile Strength	1457 psi	10.0 MPa
Ultimate Elongation	240 %	
Hardness, Shore A	65 Durometer	
Specific Gravity	1.88 grams/cc	
Brittleness Temperature	-15 °F	-26 °C
Tear Resistance, Die B	116 ppi	20.3 kN/m

Compression Set

Plied: 22 hrs @ RT (73°F, 23°C)	12.5 %
Plied: 22 hrs @ 347°F (175°C)	8.1 %
Plied: 22 hrs @ 392°F (200°C)	7.8 %

HEAT AGED: 70 hrs @ 482°F (250°C)

Change - Tensile Strength	+ 11.4 %
Change - Elongation	+ 4.2 %
Change - Hardness, Shore A	+ 5

HEAT AGED: 70 hrs @ 527°F (275°C)

Change - Tensile Strength	- 21.3 %
Change - Elongation	+ 20.8 %
Change - Hardness, Shore A	+ 3

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

Change - Hardness, Shore A	+ 3
Change - Volume	+ 3.5 %

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

Change - Tensile Strength	+ 1.0 %
Change - Elongation	+ 8.3 %
Change - Hardness, Shore A	- 1
Change - Volume	0.0 %



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

Change - Tensile Strength	- 31.6 %
Change - Elongation	- 12.5 %
Change - Hardness, Shore A	- 1
Change - Volume	+ 4.5 %

ASTM OIL #1: 70 hrs @ 302°F (150°C)

Change - Tensile Strength	+ 2.7 %
Change - Elongation	0.0 %
Change - Hardness, Shore A	- 1
Change - Volume	+ 0.2 %

ASTM OIL #3: 70 hrs @ 302°F (150°C)

Change - Tensile Strength	+ 7.5 %
Change - Elongation	+ 12.5 %
Change - Hardness, Shore A	- 1
Change - Volume	+ 1.7 %

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

Change - Tensile Strength	- 16.1 %
Change - Elongation	+ 16.7 %
Change - Hardness, Shore A	- 5
Change - Volume	+ 11.4 %

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

Change - Tensile Strength	- 23.3 %
Change - Elongation	0.0 %
Change - Hardness, Shore A	- 10
Change - Volume	+ 17.4 %