



Compound

9618**FLUORINATED -
HYDROCARBON - 60 DURO
BLACK - TEFLON FILLED****PRODUCT DATA SHEET**

Compound 9618 is a 60 durometer black colored fluorinated elastomer, it is formulated with Teflon to provide internal lubrication. It exhibits excellent resistance to heat, compression set, petroleum based oils, aromatic and aliphatic fuels.

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

ASTM D2000 2 HK 610 A1-10 B37 B38 EF31 EO78
4 HK 610 A1-11 B38 EF31 EO78
6 HK 610 A1-10 A1-11 B38 EF31 EO88

Original Properties

Modulus @ 100% Elongation	258 psi	1.8 MPa
Tensile Strength	1171 psi	8.1 MPa
Ultimate Elongation	338 %	
Hardness, Shore A	65 Durometer	
Specific Gravity	1.88 grams/cc	
Brittleness Temperature	-11 °F	-24 °C
Tear Resistance, Die B	120 ppi	21.0 kN/m
Tear Resistance, Die C	110 ppi	19.3 kN/m

Compression Set

Plied: 22 hrs @ RT (73°F, 23°C)	15.9 %
Plied: 22 hrs @ 392°F (200°C)	9.8 %

HEAT AGED: 70 hrs @ 482°F (250°C)

Change - Tensile Strength	+ 9.1 %
Change - Elongation	+ 0.6 %
Change - Hardness, Shore A	+ 3

HEAT AGED: 70 hrs @ 527°F (275°C)

Change - Tensile Strength	+ 9.1 %
Change - Elongation	- 2.7 %
Change - Hardness, Shore A	+ 3

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

Change - Hardness, Shore A	0
Change - Volume	+ 1.7 %

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

Change - Tensile Strength	- 16.4 %
Change - Elongation	- 4.4 %
Change - Hardness, Shore A	0
Change - Volume	+ 2.1 %



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ASTM OIL #1: 70 hrs @ 302°F (150°C)

Change - Tensile Strength	+ 8.9 %
Change - Elongation	+ 5.3 %
Change - Hardness, Shore A	0
Change - Volume	+ 1.0 %

ASTM OIL #3: 70 hrs @ 302°F (150°C)

Change - Tensile Strength	+ 1.6 %
Change - Elongation	+ 4.7 %
Change - Hardness, Shore A	0
Change - Volume	+ 1.9 %

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

Change - Tensile Strength	- 12.0 %
Change - Elongation	+ 7.1 %
Change - Hardness, Shore A	- 3
Change - Volume	+ 8.6 %

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

Change - Tensile Strength	- 20.2 %
Change - Elongation	+ 3.0 %
Change - Hardness, Shore A	- 7
Change - Volume	+ 17.4 %