

Compound

8618**FLUORINATED
HYDROCARBON - 60 DURO
BLACK - TEFLON FILLED****PRODUCT DATA SHEET**

Compound 8618 is a 60 durometer black colored fluorocarbon elastomer, it is formulated with Teflon to provide internal lubrication. It exhibits good resistance to heat, compression set, petroleum based oils and both aliphatic and aromatic fuels.

This compound has the following physical properties:

Original Properties

Modulus @ 100% Elongation	251 psi	1.7 MPa
Tensile Strength	1013 psi	7.0 MPa
Ultimate Elongation	328 %	
Hardness, Shore A	65 Durometer	
Specific Gravity	1.87 grams/cc	
Brittleness Temperature	-6 °F	-21 °C
Tear Resistance, Die B	136 ppi	23.8 kN/m
Tear Resistance, Die C	97 ppi	17.0 kN/m

Compression Set

Plied: 22 hrs @ RT (73°F, 23°C)	19.0 %
Plied: 22 hrs @ 347°F (175°C)	11.1 %
Plied: 22 hrs @ 392°F (200°C)	15.8 %

HEAT AGED: 70 hrs @ 482°F (250°C)

Change - Tensile Strength	- 10.6 %
Change - Elongation	- 12.5 %
Change - Hardness, Shore A	+ 2

HEAT AGED: 70 hrs @ 527°F (275°C)

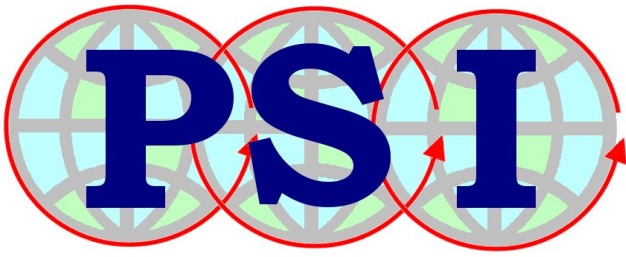
Change - Tensile Strength	- 14.4 %
Change - Elongation	+ 13.4 %
Change - Hardness, Shore A	+ 3

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

Change - Hardness, Shore A	- 4
Change - Volume	+ 1.9 %

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

Change - Tensile Strength	- 27.0 %
Change - Elongation	- 12.8 %
Change - Hardness, Shore A	0
Change - Volume	+ 3.1 %



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ASTM OIL #1: 70 hrs @ 302°F (150°C)

Change - Tensile Strength	- 4.8 %
Change - Elongation	0.0 %
Change - Hardness, Shore A	0
Change - Volume	+ 0.4 %

ASTM OIL #3: 70 hrs @ 302°F (150°C)

Change - Tensile Strength	- 0.5 %
Change - Elongation	+ 9.1 %
Change - Hardness, Shore A	0
Change - Volume	+ 1.8 %

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

Change - Tensile Strength	- 16.2 %
Change - Elongation	+ 4.0 %
Change - Hardness, Shore A	- 4
Change - Volume	+ 8.7 %

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

Change - Tensile Strength	- 30.6 %
Change - Elongation	- 8.8 %
Change - Hardness, Shore A	- 7
Change - Volume	+ 15.7 %