

Compound

9718**FLUORINATED
HYDROCARBON - 70 DURO
BLACK - TEFLON FILLED****PRODUCT DATA SHEET**

Compound 9718 is a 70 durometer black colored Fluorinated Hydrocarbon elastomer, it is internally lubricated with Teflon to provide internal lubrication. It exhibits good resistance to heat, compression set, petroleum based oils, aliphatic and aromatic fuels. This compound contains greater than 10% Teflon by weight.

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

ASTM D2000 2 HK 710 A1-10 B37 B38 EO78
4 HK 710 A1-11 B38 EO78
6 HK 710 A1-10 A1-11 B31 EO88

Original Properties

Modulus @ 100% Elongation	408 psi	2.8 MPa
Tensile Strength	1187 psi	8.2 MPa
Ultimate Elongation	275 %	
Hardness, Shore A	71 Durometer	
Specific Gravity	1.89 grams/cc	
Brittleness Temperature	0 °F	-18 °C
Tear Resistance, Die B	116 ppi	20.3 kN/m

Compression Set

Plied: 22 hrs @ RT (73°F, 23°C)	8.5 %
Plied: 22 hrs @ 347°F (175°C)	10.2 %
Plied: 22 hrs @ 392°F (200°C)	16.7 %

HEAT AGED: 70 hrs @ 482°F (250°C)

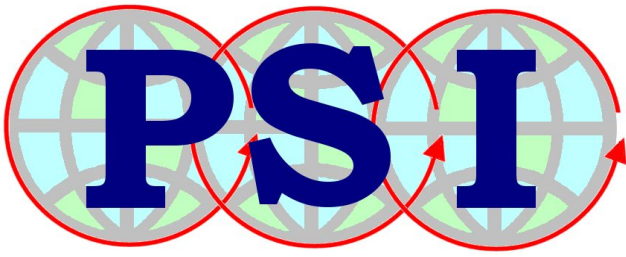
Change - Tensile Strength	- 6.4 %
Change - Elongation	- 4.4 %
Change - Hardness, Shore A	0
Change - Volume	- 1.8 %

HEAT AGED: 70 hrs @ 527°F (275°C)

Change - Tensile Strength	- 18.2 %
Change - Elongation	+ 3.3 %
Change - Hardness, Shore A	+ 1
Change - Volume	- 3.1 %

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

Change - Tensile Strength	- 6.5 %
Change - Elongation	+ 13.8 %
Change - Hardness, Shore A	- 2
Change - Volume	+ 3.4 %



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BLACK - TEFLON FILLED**PRODUCT DATA SHEET****ASTM REFERENCE FUEL A: 70 hrs @ RT (73°F, 23°C)**

Change - Tensile Strength	- 11.2 %
Change - Elongation	- 1.4 %
Change - Hardness, Shore A	0
Change - Volume	+ 0.1 %

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

Change - Tensile Strength	- 35.6 %
Change - Elongation	- 13.5 %
Change - Hardness, Shore A	- 3
Change - Volume	+ 4.1 %

ASTM OIL #1: 70 hrs @ 302°F (150°C)

Change - Tensile Strength	- 9.2 %
Change - Elongation	+ 3.3 %
Change - Hardness, Shore A	- 2
Change - Volume	- 0.1 %

ASTM OIL #3: 70 hrs @ 302°F (150°C)

Change - Tensile Strength	- 11.7 %
Change - Elongation	- 1.5 %
Change - Hardness, Shore A	- 4
Change - Volume	+ 1.2 %

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

Change - Tensile Strength	- 27.2 %
Change - Elongation	- 1.5 %
Change - Hardness, Shore A	- 10
Change - Volume	+ 11.6 %

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

Change - Tensile Strength	- 39.3 %
Change - Elongation	- 14.9 %
Change - Hardness, Shore A	- 11
Change - Volume	+ 19.8 %