



Compound

8706FLUORINATED
HYDROCARBON - 70 DURO
BLACK COLOR**PRODUCT DATA SHEET**

Compound 8706 is a 70 durometer black colored Viton B elastomer. It exhibits excellent resistance to compression set, 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 715 A1-10 B37 B38 EF31 EO78 F15
4 HK 715 B38 EF31 EO78
6 HK 715 A1-10 B31 B38 EF31 EO88 F15

Original Properties

Modulus @ 100% Elongation	574 psi	4.0 MPa
Tensile Strength	1713 psi	11.8 MPa
Ultimate Elongation	298 %	
Hardness, Shore A	75 Durometer	
Specific Gravity	1.90 grams/cc	
Brittleness Temperature	-23 °F	-31 °C
Tear Resistance, Die B	214 ppi	37.5 kN/m
Tear Resistance, Die C	145 ppi	25.4 kN/m

Compression Set

Plied: 22 hrs @ RT (73°F, 23°C)	12.1 %
Plied: 22 hrs @ 347°F (175°C)	9.1 %
Plied: 22 hrs @ 392°F (200°C)	12.1 %

HEAT AGED: 70 hrs @ 482°F (250°C)

Change - Tensile Strength	+ 6.1 %
Change - Elongation	- 15.8 %
Change - Hardness, Shore A	0

HEAT AGED: 70 hrs @ 527°F (275°C)

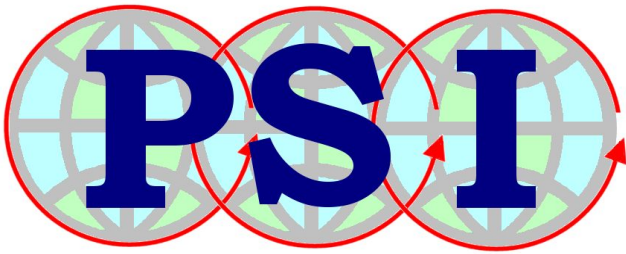
Change - Tensile Strength	- 9.1 %
Change - Elongation	- 22.5 %
Change - Hardness, Shore A	0

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

Change - Hardness, Shore A	- 1
Change - Volume	+ 0.7 %

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

Change - Tensile Strength	- 13.8 %
Change - Elongation	- 6.7 %
Change - Hardness, Shore A	- 1
Change - Volume	+ 2.5 %



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ASTM OIL #1: 70 hrs @ 302°F (150°C)

Change - Tensile Strength	- 0.8 %
Change - Elongation	- 6.0 %
Change - Hardness, Shore A	0
Change - Volume	0.0 %

ASTM OIL #3: 70 hrs @ 302°F (150°C)

Change - Tensile Strength	- 9.0 %
Change - Elongation	- 3.7 %
Change - Hardness, Shore A	0
Change - Volume	+ 1.0 %

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

Change - Tensile Strength	- 20.2 %
Change - Elongation	+ 8.7 %
Change - Hardness, Shore A	- 4
Change - Volume	+ 9.7 %

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

Change - Tensile Strength	- 29.4 %
Change - Elongation	+ 2.0 %
Change - Hardness, Shore A	- 7
Change - Volume	+ 5.5 %

METHANOL: 168 hrs @ RT (73°F, 23°C)

Change - Volume	+ 22.2 %
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