

Compound  
**10746**  
FLUOROELASTOMER  
70 DUROMETER  
BLACK COLOR

**PRODUCT DATA SHEET**

Compound 10746 is a 70 Durometer Black General Purpose FKM. It is formulated for high temperature applications. It exhibits very good resistance to heat, compression set, low temperature, petroleum and synthetic based lubricants. It is recommended for use with aromatic and non-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  
4 HK 715 A1-11 B38 EF31 EO78  
6 HK 715 A1-10 A1-11 EF31 EO88



**Original Properties**

Modulus @ 50% Elongation	283 psi	2.0 MPa
Modulus @ 100% Elongation	448 psi	3.1 MPa
Tensile Strength	1,744 psi	12.0 MPa
Ultimate Elongation	339 %	
Hardness, Shore A	75 Durometer	
Specific Gravity	1.85 grams/cc	
Brittleness Temperature	-15 °F	-26 °C
TR-10 Temperature	-1 °F	-18 °C
Tear Resistance, Die B	221 ppi	38.7 kN/m
Tear Resistance, Die C	156 ppi	27.3 kN/m

**Compression Set**

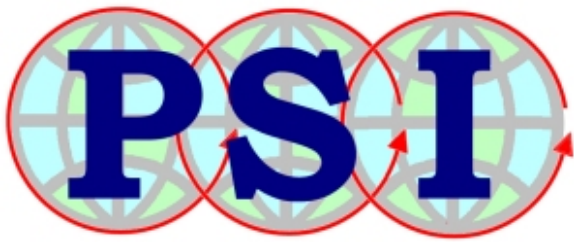
Plied: 22 hrs @ RT (73°F, 23°C)	26.5 %
Plied: 22 hrs @ 347°F (175°C)	17.6 %
Plied: 22 hrs @ 392°F (200°C)	20.8 %

**HEAT AGED: 70 hrs @ 482°F (250°C)**

Change - Tensile Strength	- 1.2 %
Change - Elongation	+ 0.9 %
Change - Hardness, Shore A	+ 3

**HEAT AGED: 70 hrs @ 527°F (275°C)**

Change - Tensile Strength	- 16.2 %
Change - Elongation	+ 14.6 %
Change - Hardness, Shore A	+ 4
Change - Elongation	0.0 %
Change - Hardness, Shore A	0



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Change - Hardness, Shore A	- 2
Change - Volume	+ 2.5 %

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

Change - Tensile Strength	- 4.2 %
Change - Elongation	+ 2.5 %
Change - Hardness, Shore A	- 2
Change - Volume	+ 3.2 %

**ASTM OIL #1 (IRM 901): 70 hrs @ 302°F (150°C)**

Change - Tensile Strength	+ 3.9 %
Change - Elongation	- 4.0 %
Change - Hardness, Shore A	- 1
Change - Volume	- 0.1 %

**ASTM OIL #3 (IRM 903): 70 hrs @ 302°F (150°C)**

Change - Tensile Strength	- 1.1 %
Change - Elongation	+ 3.7 %
Change - Hardness, Shore A	- 1
Change - Volume	+ 1.9 %

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

Change - Tensile Strength	- 8.7 %
Change - Elongation	+ 9.9 %
Change - Hardness, Shore A	- 13
Change - Volume	+ 11.2 %

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

Change - Tensile Strength	- 9.7 %
Change - Elongation	+ 10.8 %
Change - Hardness, Shore A	- 16
Change - Volume	+ 17.8 %