

Compound

**22701**ETHYLENE - ACRYLIC  
70 DUROMETER  
BLACK COLOR**PRODUCT DATA SHEET**

Compound 22701 is a 70 durometer black colored Ethylene - Acrylic (Vamac®) elastomer. It exhibits excellent resistance to heat, water and compression set.

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

ASTM D2000 4 EE 715 A47 B46 B37 EO16 EO36 EA14 G21  
3 EE 712 A47 B46 B37 EO16 EO36 EA14 G21  
5 EE 712 A47 B46 B37 EO16 EO36 EA14 G21

**Original Properties**

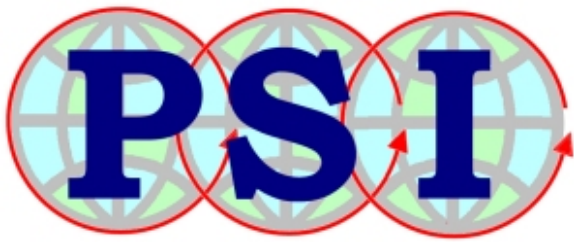
Modulus @ 50% Elongation	428 psi	3.0 MPa
Modulus @ 100% Elongation	1047 psi	7.2 MPa
Tensile Strength	2,482 psi	17.1 MPa
Ultimate Elongation	235 %	
Hardness, Shore A	75 Durometer	
Specific Gravity	1.21 grams/cc	
Brittleness Temperature	-35 °F	-37 °C
TR-10 Temperature	-15 °F	-26 °C
Tear Resistance, Die B	260 ppi	45.5 kN/m
Tear Resistance, Die C	205 ppi	35.9 kN/m

**Compression Set**

Solid: 22 hrs @ 302°F (150°C)	7.4 %
Solid: 22 hrs @ 347°F (175°C)	5.0 %
Solid: 70 hrs @ 302°F (150°C)	13.1 %
Solid: 70 hrs @ 347°F (175°C)	9.9 %
Plied: 22 hrs @ 302°F (150°C)	6.7 %
Plied: 22 hrs @ 347°F (175°C)	6.8 %
Plied: 70 hrs @ 302°F (150°C)	15.5 %
Plied: 70 hrs @ 347°F (175°C)	12.2 %
Solid: 720 hrs @ 302°F (150°C)	31.7 %

**HEAT AGED: 70 hrs @ 347°F (175°C)**

Change - Tensile Strength	- 1.1 %
Change - Elongation	- 4.7 %
Change - Hardness, Shore A	0



Compound

**22701**

ETHYLENE - ACRYLIC  
70 DUROMETER  
BLACK COLOR

**PRODUCT DATA SHEET**

**HEAT AGED: 168 hrs @ 347°F (175°C)**

Change - Tensile Strength	+ 3.1 %
Change - Elongation	- 4.3 %
Change - Hardness, Shore A	+ 2

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

Change - Hardness, Shore A	- 3
Change - Volume	+ 3.1 %

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

Change - Tensile Strength	+ 1.4 %
Change - Elongation	+ 2.6 %
Change - Hardness, Shore A	- 4
Change - Volume	+ 7.4 %

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

Change - Tensile Strength	- 33.0 %
Change - Elongation	- 21.3 %
Change - Hardness, Shore A	- 17
Change - Volume	+ 48.5 %