



Compound

**4606**CHLOROPRENE  
60 DUROMETER  
BLACK COLOR**PRODUCT DATA SHEET**

Compound 4606 is 60 durometer black colored Neoprene elastomer, it is formulated for use in diaphragms requiring constant flexing. It exhibits good resistance to heat and paraffinic oil, it will also remain non brittle at low temperatures.

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

ASTM D2000 2 BC 620 A14 B14 EO14 EO34 F17  
6 BC 620 A14 B14 EO14 EO34 F17  
5 BC 615 A14 B14 EO14 EO34  
  
2 BE 620 A14 B14 EO14 EO34 F17  
3 BE 615 A14 B14 EO14 EO34

**Original Properties**

Modulus @ 100% Elongation	256 psi	1.8 MPa
Tensile Strength	2329 psi	16.1 MPa
Ultimate Elongation	400 %	
Hardness, Shore A	57 Durometer	
Specific Gravity	1.38 grams/cc	
Brittleness Temperature	-54 °F	-48 °C
Tear Resistance, Die B	173 ppi	30.3 kN/m

**Compression Set**

Solid: 22 hrs @ 212°F (100°C)	13.3 %
Solid: 70 hrs @ 212°F (100°C)	22.4 %
Plied: 22 hrs @ 212°F (100°C)	23.1 %

**HEAT AGED: 70 hrs @ 212°F (100°C)**

Change - Tensile Strength	+ 13.8 %
Change - Elongation	- 5.0 %
Change - Hardness, Shore A	+ 9

**HEAT AGED: 70 hrs @ 257°F (125°C)**

Change - Tensile Strength	+ 4.4 %
Change - Elongation	- 37.5 %
Change - Hardness, Shore A	+ 22

**HEAT AGED: 70 hrs @ 257°F (125°C) Test Tube Method**

Change - Tensile Strength	+ 4.4 %
Change - Elongation	- 37.5 %
Change - Hardness, Shore A	+ 22



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**4606**CHLOROPRENE  
60 DUROMETER  
BLACK COLOR**PRODUCT DATA SHEET****DISTILLED WATER AGED: 70 hrs @ 212°F (100°C)**

Change - Tensile Strength	- 3.5 %
Change - Elongation	- 12.5 %
Change - Hardness, Shore A	- 1
Change - Volume	+ 10.4 %

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

Change - Tensile Strength	- 32.2 %
Change - Elongation	- 20.0 %
Change - Hardness, Shore A	- 7
Change - Volume	+ 12.7 %

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

Change - Tensile Strength	- 61.1 %
Change - Elongation	- 47.5 %
Change - Hardness, Shore A	- 16
Change - Volume	+ 57.9 %

**ASTM OIL #1: 70 hrs @ 212°F (100°C)**

Change - Tensile Strength	+ 1.7 %
Change - Elongation	- 5.0 %
Change - Hardness, Shore A	+ 1
Change - Volume	- 0.8 %

**ASTM OIL #3: 70 hrs @ 212°F (100°C)**

Change - Tensile Strength	- 42.0 %
Change - Elongation	- 37.5 %
Change - Hardness, Shore A	- 17
Change - Volume	+ 68.8 %

**Tear Resistance, Method D 624, Die B**

Tear Resistance	173.0 ppi
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