



Compound

4566**CHLOROPRENE
50 DUROMETER - BLACK
FDA SANCTIONED MAT'L.****PRODUCT DATA SHEET**

Compound 4566 is a 50 durometer black colored Neoprene elastomer, it is formulated with FDA sanctioned materials. It is also suitable for use in milk and edible oils.

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

ASTM D2000 2 BC 520 B14 EO14 EO34 F17 G21
 5 BC 520 B14 EO14 EO34 G21
 6 BC 520 B14 EO14 EO34 F17 G21

 2 BE 520 B14 EO14 F17
 3 BE 520 B14 EO14 F17 G21

AMS 3208

Original Properties

Modulus @ 100% Elongation	113 psi	0.8 MPa
Tensile Strength	2389 psi	16.5 MPa
Ultimate Elongation	750 %	
Hardness, Shore A	52 Durometer	
Specific Gravity	1.39 grams/cc	
Brittleness Temperature	-40 °F	-40 °C
Tear Resistance, Die B	96 ppi	16.8 kN/m
Tear Resistance, Die C	176 ppi	30.8 kN/m

Compression Set

Solid: 22 hrs @ 212°F (100°C)	20.7 %
Solid: 70 hrs @ 212°F (100°C)	30.7 %
Plied: 22 hrs @ 212°F (100°C)	28.3 %
Plied: 70 hrs @ 212°F (100°C)	34.7 %

HEAT AGED: 70 hrs @ 212°F (100°C)

Change - Tensile Strength	- 15.2 %
Change - Elongation	- 17.3 %
Change - Hardness, Shore A	+ 6

HEAT AGED: 70 hrs @ 257°F (125°C)

Change - Tensile Strength	- 45.7 %
Change - Elongation	- 60.0 %
Change - Hardness, Shore A	+ 16

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

Change - Hardness, Shore A	- 1
Change - Volume	+ 16.0 %



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

Change - Tensile Strength	- 16.3 %
Change - Elongation	- 6.7 %
Change - Hardness, Shore A	- 4
Change - Volume	+ 14.1 %

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

Change - Tensile Strength	- 55.8 %
Change - Elongation	- 29.3 %
Change - Hardness, Shore A	- 11
Change - Volume	+ 64.3 %

ASTM OIL #1: 70 hrs @ 212°F (100°C)

Change - Tensile Strength	+ 1.7 %
Change - Elongation	- 5.3 %
Change - Hardness, Shore A	0
Change - Volume	- 1.6 %

ASTM OIL #3: 70 hrs @ 212°F (100°C)

Change - Tensile Strength	- 50.0 %
Change - Elongation	- 25.3 %
Change - Hardness, Shore A	- 18
Change - Volume	+ 78.6 %

Tear Resistance, Method D 624, Die B

Tear Resistance	96.0 ppi
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Tear Resistance, Method D 624, Die C

Tear Resistance	176.0 ppi
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