

Compound

4524**CHLOROPRENE
50 DUROMETER
BLACK FUNGUS-RESISTANT****PRODUCT DATA SHEET**

Compound 4524 is a 50 durometer black colored Neoprene elastomer, it is formulated with a fungus resistant additive. It exhibits good low temperature flexibility and good resistance to compression set.

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

ASTM D2000 2 BC 515 A14 B14 EO14 EO34 F17 G21
5 BC 515 A14 B14 EO14 EO34 G21
6 BC 515 A14 B14 EO14 EO34 G21 F17
2 BE 515 A14 B14 EO14 F17
3 BE 515 A14 B14 EO14 G21

Original Properties

Modulus @ 100% Elongation	187 psi	1.3 MPa
Tensile Strength	1579 psi	10.9 MPa
Ultimate Elongation	570 %	
Hardness, Shore A	52 Durometer	
Specific Gravity	1.36 grams/cc	
Brittleness Temperature	-65 °F	-54 °C
Tear Resistance, Die B	110 ppi	19.3 kN/m
Tear Resistance, Die C	153 ppi	26.8 kN/m

Compression Set

Solid: 22 hrs @ 212°F (100°C)	8.1 %
Solid: 70 hrs @ 212°F (100°C)	12.7 %
Plied: 22 hrs @ 212°F (100°C)	12.9 %
Plied: 70 hrs @ 212°F (100°C)	16.8 %

HEAT AGED: 70 hrs @ 212°F (100°C)

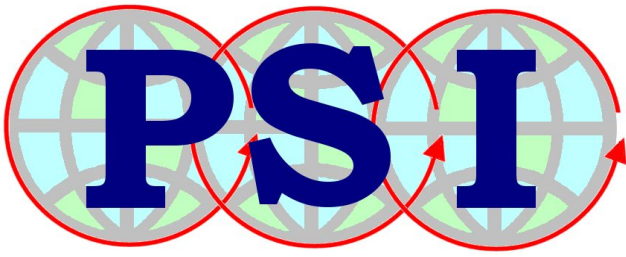
Change - Tensile Strength	- 8.4 %
Change - Elongation	- 8.8 %
Change - Hardness, Shore A	+ 7

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

Change - Hardness, Shore A	+ 1
Change - Volume	+ 8.6 %

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

Change - Tensile Strength	- 18.1 %
Change - Elongation	- 14.0 %
Change - Hardness, Shore A	0
Change - Volume	+ 6.4 %



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

Change - Tensile Strength	- 61.5 %
Change - Elongation	- 56.1 %
Change - Hardness, Shore A	- 6
Change - Volume	+ 49.0 %

ASTM OIL #1: 70 hrs @ 212°F (100°C)

Change - Tensile Strength	+ 10.4 %
Change - Elongation	- 7.0 %
Change - Hardness, Shore A	+ 2
Change - Volume	- 7.7 %

ASTM OIL #3: 70 hrs @ 212°F (100°C)

Change - Tensile Strength	- 26.7 %
Change - Elongation	- 43.9 %
Change - Hardness, Shore A	- 11
Change - Volume	+ 56.2 %

Tear Resistance, Method D 624, Die B

Tear Resistance	110.0 ppi
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Tear Resistance, Method D 624, Die C

Tear Resistance	153.0 ppi
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