

Compound
4751
 CHLOROPRENE
 70 DUROMETER
 BLACK COLOR

PRODUCT DATA SHEET

Compound 4751 is a black colored, high quality and sulfur free Neoprene W elastomer. It has a good balance of physical properties and good aging properties.

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

ASTM D2000 3 BC 715 A14 B14 C12 EO14 EO34 F17 G21
 5 BC 715 A14 B14 C12 EO14 EO34 G21
 6 BC 715 A14 B14 C12 EO14 EO34 F17 G21

 2 BE 720 A14 B14 C12 EO14 EO34 F17
 3 BE 720 A14 B14 C12 EO14 EO34 G21

AMS 3209
 AMS 3244



Original Properties

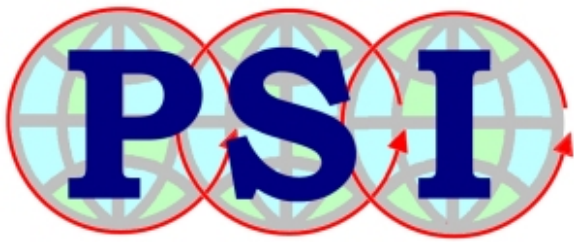
Modulus @ 50% Elongation	300 psi	2.1 MPa
Modulus @ 100% Elongation	683 psi	4.7 MPa
Tensile Strength	2,361 psi	16.3 MPa
Ultimate Elongation	253 %	
Hardness, Shore A	71 Durometer	
Specific Gravity	1.47 grams/cc	
Brittleness Temperature	-40 °F	-40 °C
TR-10 Temperature	-39 °F	-39 °C
Tear Resistance, Die B	161.0 ppi	28.2 kN/m
Tear Resistance, Die C	167.0 ppi	29.2 kN/m

Compression Set

Solid: 22 hrs @ 212°F (100°C)	6.0 %
Solid: 22 hrs @ 257°F (125°C)	13.1 %
Solid: 70 hrs @ 212°F (100°C)	11.8 %
Plied: 22 hrs @ 212°F (100°C)	18.3 %
Plied: 22 hrs @ 257°F (125°C)	26.4 %
Plied: 70 hrs @ 212°F (100°C)	23.7 %

HEAT AGED: 70 hrs @ 212°F (100°C)

Change - Tensile Strength	- 11.2 %
Change - Elongation	- 10.7 %
Change - Hardness, Shore A	+ 3



Compound

4751CHLOROPRENE
70 DUROMETER
BLACK COLOR**PRODUCT DATA SHEET****HEAT AGED: 70 hrs @ 257°F (125°C)**

Change - Tensile Strength	- 9.4 %
Change - Elongation	- 25.3 %
Change - Hardness, Shore A	+ 8

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

Change - Tensile Strength	- 9.4 %
Change - Elongation	- 25.3 %
Change - Hardness, Shore A	+ 8

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

Change - Hardness, Shore A	- 3
Change - Volume	+ 8.3 %

ASTM OIL #1 (IRM 901): 70 hrs @ 212°F (100°C)

Change - Tensile Strength	- 7.2 %
Change - Elongation	- 14.6 %
Change - Hardness, Shore A	0
Change - Volume	- 2.9 %

ASTM OIL #3 (IRM 903): 70 hrs @ 212°F (100°C)

Change - Tensile Strength	- 49.3 %
Change - Elongation	- 40.0 %
Change - Hardness, Shore A	- 12
Change - Volume	+ 40.0 %

ASTM REFERENCE FUEL B : 22 hrs @ RT (73°F, 23°C)

Change - Tensile Strength	- 47.3 %
Change - Elongation	- 36.4 %
Change - Hardness, Shore A	- 13
Change - Volume	+ 41.9 %

Flame Out:

Seconds	1.0
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