

Compound
7501
NITRILE - BUTADIENE
50 DUROMETER - BLACK COLOR
OZONE RESISTANT

PRODUCT DATA SHEET

Compound 7501 is a 50 durometer black colored Buna N elastomer, it is specifically formulated to be ozone resistant. It exhibits good low temperature flexibility.

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

- ASTM D2000 2 BG 515 B14 B34 EA14 EF11 EF21 F17
- 3 BG 515 B14 F19
- 4 BG 515 B14 F19
- 5 BG 515 A14 B14 B34 F19

- MIL-STD.417 SB 515 A1 B1 E3 E5 C1 F2
- AMS 3205
- MIL-PRF-1149 Type I Class 5

This Compound is RoHS Compliant



Original Properties

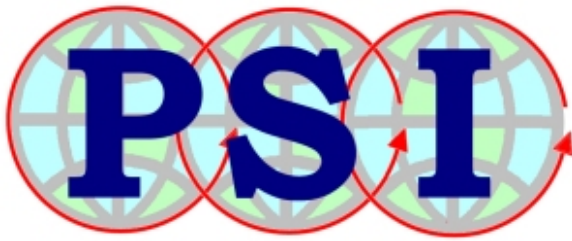
Modulus @ 100% Elongation	247 psi	1.7 MPa
Tensile Strength	1,517 psi	10.5 MPa
Ultimate Elongation	496 %	
Hardness, Shore A	55 Durometer	
Specific Gravity	1.15 grams/cc	
Brittleness Temperature	< -67 °F	< -55 °C
TR-10 Temperature	-46 °F	-43 °C
Tear Resistance, Die B	123 ppi	21.5 kN/m
Tear Resistance, Die C	170 ppi	29.8 kN/m

Compression Set

Solid: 22 hrs @ 212°F (100°C)	5.0 %
Solid: 22 hrs @ 257°F (125°C)	9.6 %
Solid: 70 hrs @ 212°F (100°C)	8.8 %
Plied: 22 hrs @ 212°F (100°C)	10.1 %
Plied: 22 hrs @ 257°F (125°C)	13.6 %
Plied: 70 hrs @ 212°F (100°C)	14.5 %

HEAT AGED: 70 hrs @ 212°F (100°C)

Change - Tensile Strength	+ 23.1 %
Change - Elongation	- 21.0 %
Change - Hardness, Shore A	+ 10



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Change - Tensile Strength	+ 39.3 %
Change - Elongation	- 24.8 %
Change - Hardness, Shore A	+ 19

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

Change - Tensile Strength	+ 39.3 %
Change - Elongation	- 24.8 %
Change - Hardness, Shore A	+ 19

Ozone Resistance, D 1171, Exposure, Method B

PASS

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

Change - Hardness, Shore A	0
Change - Volume	+ 4.4 %

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

Change - Tensile Strength	- 0.6 %
Change - Elongation	- 6.7 %
Change - Hardness, Shore A	0
Change - Volume	- 3.9 %

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

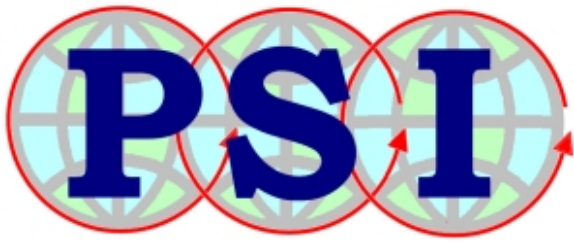
Change - Tensile Strength	- 35.7 %
Change - Elongation	- 36.1 %
Change - Hardness, Shore A	- 2
Change - Volume	+ 16.1 %

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

Change - Tensile Strength	+ 14.0 %
Change - Elongation	- 18.5 %
Change - Hardness, Shore A	+ 7
Change - Volume	- 14.4 %

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

Change - Tensile Strength	+ 16.4 %
Change - Elongation	- 9.5 %
Change - Hardness, Shore A	+ 4
Change - Volume	- 3.1 %



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TR-10 : ASTM D1329 (10% Retraction @ °F)

Temperature

- 59.0 °F