



Compound

**3619****NITRILE - BUTADIENE  
60 DUROMETER  
BLACK-GRAPHITE FILLED****PRODUCT DATA SHEET**

Compound 3619 is a 60 durometer black colored Buna N elastomer, it is formulated with graphite to provide internal lubrication. It exhibits good resistance to aliphatic fuels and has good resistance to compression set.

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

ASTM D2000 2 BF 612 B14 B34 EO34  
2 BG 612 B14 B34 EA14 EF11 EF21 EO34  
5 BG 612 A14 B14 B34 E014  
4 BK 612 A24 B14 B34 EF11 EF21 EO34

**Original Properties**

Modulus @ 100% Elongation	493 psi	3.4 MPa
Tensile Strength	1479 psi	10.2 MPa
Ultimate Elongation	500 %	
Hardness, Shore A	65 Durometer	
Specific Gravity	1.30 grams/cc	
Brittleness Temperature	-29 °F	-34 °C
Tear Resistance, Die B	171 ppi	29.9 kN/m

**Compression Set**

Solid: 22 hrs @ 212°F (100°C)	9.4 %
Solid: 70 hrs @ 212°F (100°C)	12.6 %
Plied: 22 hrs @ 212°F (100°C)	18.1 %
Plied: 70 hrs @ 212°F (100°C)	23.6 %

**HEAT AGED: 70 hrs @ 212°F (100°C)**

Change - Tensile Strength	+ 16.6 %
Change - Elongation	- 16.0 %
Change - Hardness, Shore A	- 10

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

Change - Hardness, Shore A	0
Change - Volume	+ 6.6 %

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

Change - Tensile Strength	- 1.1 %
Change - Elongation	+ 2.0 %
Change - Hardness, Shore A	0
Change - Volume	+ 0.5 %



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

Change - Tensile Strength	- 41.6 %
Change - Elongation	- 36.0 %
Change - Hardness, Shore A	- 6
Change - Volume	+ 21.1 %

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

Change - Tensile Strength	+ 17.2 %
Change - Elongation	- 8.0 %
Change - Hardness, Shore A	+ 11
Change - Volume	- 8.9 %

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

Change - Tensile Strength	+ 0.5 %
Change - Elongation	- 6.0 %
Change - Hardness, Shore A	+ 2
Change - Volume	+ 3.4 %

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

Tear Resistance	171.0 ppi
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