



Compound

3819**NITRILE BUTADIENE
80 DUROMETER
BLACK-GRAPHITE FILLED****PRODUCT DATA SHEET**

Compound 3819 is an 80 durometer black colored Buna N elastomer, it is formulated with graphite to provide internal lubrication.

This compound has the following physical properties:

Original Properties

Modulus @ 100% Elongation	649 psi	4.5 MPa
Tensile Strength	1189 psi	8.2 MPa
Ultimate Elongation	260 %	
Hardness, Shore A	80 Durometer	
Specific Gravity	1.36 grams/cc	
Brittleness Temperature	-29 °F	-34 °C
Tear Resistance, Die B	218 ppi	38.2 kN/m

Compression Set

Solid: 22 hrs @ 212°F (100°C)	20.6 %
Plied: 22 hrs @ 212°F (100°C)	24.5 %
Plied: 70 hrs @ 212°F (100°C)	31.9 %

HEAT AGED: 70 hrs @ 212°F (100°C)

Change - Tensile Strength	+ 29.0 %
Change - Elongation	- 30.8 %
Change - Hardness, Shore A	+ 6

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

Change - Hardness, Shore A	- 10
Change - Volume	+ 12.3 %

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

Change - Tensile Strength	- 3.9 %
Change - Elongation	- 3.8 %
Change - Hardness, Shore A	- 5
Change - Volume	+ 2.7 %

ASTM OIL #1: 70 hrs @ 212°F (100°C)

Change - Tensile Strength	+ 29.0 %
Change - Elongation	- 15.4 %
Change - Hardness, Shore A	+ 5
Change - Volume	- 7.6 %



Compound

3819

NITRILE BUTADIENE
80 DUROMETER
BLACK-GRAPHITE FILLED

PRODUCT DATA SHEET

ASTM OIL #3: 70 hrs @ 212°F (100°C)

Change - Tensile Strength	+ 20.2 %
Change - Elongation	- 11.5 %
Change - Hardness, Shore A	- 10
Change - Volume	+ 10.2 %

Tear Resistance, Method D 624, Die B

Tear Resistance	218.0 ppi
-----------------	-----------