



Compound

3418**NITRILE - BUTADIENE
40 DURO - BLACK COLOR
TEFLON FILLED****PRODUCT DATA SHEET**

Compound 3418 is a 40 durometer black colored Buna N elastomer, it is formulated with Teflon to provide internal lubrication. 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 410 B14 B34 EA14 EO34 F17
5 BG 410 A14 B14 B34 EO34

Original Properties

Modulus @ 100% Elongation	129 psi	0.9 MPa
Tensile Strength	1484 psi	10.2 MPa
Ultimate Elongation	748 %	
Hardness, Shore A	45 Durometer	
Specific Gravity	1.21 grams/cc	
Brittleness Temperature	-45 °F	-43 °C
Tear Resistance, Die B	141 ppi	24.7 kN/m
Tear Resistance, Die C	124 ppi	21.7 kN/m

Compression Set

Solid: 22 hrs @ 212°F (100°C)	14.0 %
Solid: 70 hrs @ 212°F (100°C)	21.9 %
Plied: 22 hrs @ 212°F (100°C)	21.5 %
Plied: 70 hrs @ 212°F (100°C)	25.9 %

HEAT AGED: 70 hrs @ 212°F (100°C)

Change - Tensile Strength	- 0.5 %
Change - Elongation	- 22.2 %
Change - Hardness, Shore A	+ 11

HEAT AGED: 70 hrs @ 257°F (125°C)

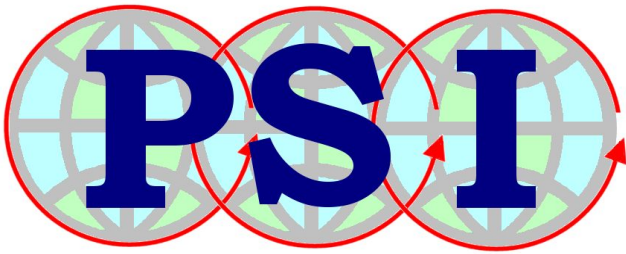
Change - Tensile Strength	+ 5.7 %
Change - Elongation	- 42.9 %
Change - Hardness, Shore A	+ 20

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

Change - Hardness, Shore A	- 2
Change - Volume	+ 8.1 %

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

Change - Tensile Strength	- 31.3 %
Change - Elongation	- 12.3 %
Change - Hardness, Shore A	- 5
Change - Volume	+ 2.6 %



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

Change - Tensile Strength	- 66.3 %
Change - Elongation	- 54.0 %
Change - Hardness, Shore A	- 9
Change - Volume	+ 28.0 %

ASTM OIL #1: 70 hrs @ 212°F (100°C)

Change - Tensile Strength	+ 6.0 %
Change - Elongation	- 6.4 %
Change - Hardness, Shore A	+ 8
Change - Volume	- 13.2 %

ASTM OIL #3: 70 hrs @ 212°F (100°C)

Change - Tensile Strength	- 24.7 %
Change - Elongation	- 21.1 %
Change - Hardness, Shore A	- 4
Change - Volume	+ 8.3 %