

Compound

3620**NITRILE - BUTADIENE
60 DUROMETER
BLACK-HOT OIL RESIST.****PRODUCT DATA SHEET**

Compound 3620 is 60 durometer black colored Buna N elastomer, it is formulated for resistance to hot petroleum based oils and dry heat. It exhibits very good compression set and hot water resistance, it also has fairly good low temperature flexibility.

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

ASTM D2000 2 BF 615 B14 B34 EO14 EO34
2 BG 615 B14 B34 EO14 EO34 EF11 EF21 EA14 F17
3 BG 615 A14 B14 B34 EO14 EO34
2 CH 615 A25 B14 B34 EO15 EO35 F17
3 CH 615 A25 B14 B34 EO15 EO36

Original Properties

Modulus @ 100% Elongation	386 psi	2.7 MPa
Tensile Strength	1905 psi	13.1 MPa
Ultimate Elongation	330 %	
Hardness, Shore A	64 Durometer	
Specific Gravity	1.21 grams/cc	
Brittleness Temperature	-49 °F	-45 °C
Tear Resistance, Die B	111 ppi	19.4 kN/m

Compression Set

Solid: 22 hrs @ 212°F (100°C)	7.8 %
Plied: 22 hrs @ 212°F (100°C)	10.4 %
Plied: 70 hrs @ 212°F (100°C)	19.8 %

HEAT AGED: 70 hrs @ 212°F (100°C)

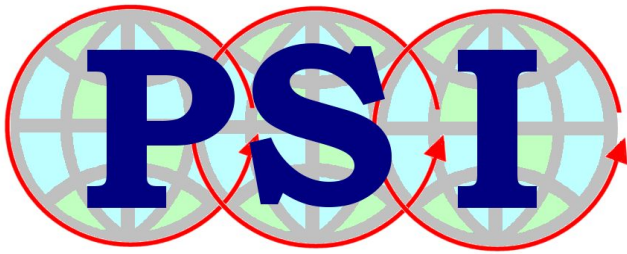
Change - Tensile Strength	+ 5.0 %
Change - Elongation	- 3.0 %
Change - Hardness, Shore A	+ 2

HEAT AGED: 70 hrs @ 257°F (125°C)

Change - Tensile Strength	+ 10.0 %
Change - Elongation	- 18.2 %
Change - Hardness, Shore A	+ 7

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

Change - Tensile Strength	+ 10.0 %
Change - Elongation	- 18.2 %
Change - Hardness, Shore A	+ 7



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Change - Tensile Strength	- 1.3 %
Change - Elongation	- 9.1 %
Change - Hardness, Shore A	+ 1
Change - Volume	+ 3.7 %

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

Change - Tensile Strength	- 14.1 %
Change - Elongation	- 9.1 %
Change - Hardness, Shore A	- 2
Change - Volume	+ 1.3 %

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

Change - Tensile Strength	- 55.5 %
Change - Elongation	- 51.5 %
Change - Hardness, Shore A	- 10
Change - Volume	+ 29.7 %

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

Change - Tensile Strength	- 70.0 %
Change - Elongation	- 63.6 %
Change - Hardness, Shore A	- 13
Change - Volume	+ 55.9 %

ASTM OIL #1: 70 hrs @ 212°F (100°C)

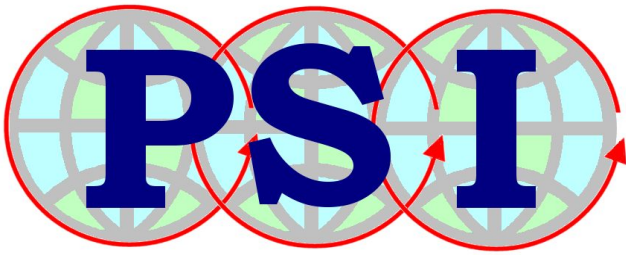
Change - Tensile Strength	+ 8.5 %
Change - Elongation	0.0 %
Change - Hardness, Shore A	+ 4
Change - Volume	- 5.4 %

ASTM OIL #1: 70 hrs @ 257°F (125°C)

Change - Tensile Strength	0.0 %
Change - Elongation	- 12.1 %
Change - Hardness, Shore A	+ 2
Change - Volume	- 5.6 %

ASTM OIL #1: 70 hrs @ 302°F (150°C)

Change - Tensile Strength	+ 7.6 %
Change - Elongation	- 15.2 %
Change - Hardness, Shore A	+ 4
Change - Volume	- 5.8 %



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PRODUCT DATA SHEET

ASTM OIL #3: 70 hrs @ 212°F (100°C)

Change - Tensile Strength	- 5.0 %
Change - Elongation	- 3.0 %
Change - Hardness, Shore A	- 4
Change - Volume	+ 9.8 %

ASTM OIL #3: 70 hrs @ 257°F (125°C)

Change - Tensile Strength	- 1.3 %
Change - Elongation	- 9.1 %
Change - Hardness, Shore A	- 4
Change - Volume	+ 10.6 %

ASTM OIL #3: 70 hrs @ 302°F (150°C)

Change - Tensile Strength	- 8.5 %
Change - Elongation	- 18.2 %
Change - Hardness, Shore A	- 5
Change - Volume	+ 11.8 %

Tear Resistance, Method D 624, Die B

Tear Resistance	111.0 psi
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