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. Itexhibits very good compression set and hot water resistance,it also has fairly good low temperature flaxibility.

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

Presure Seals, Inc.
310 Nutmeg Road South
South Windsor, CT 06074
Phone: (860) 282-9100
Fax: (860) 282-9001
Toll: (877) PSI-SEAL
www.PressureSeal.com

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

Presure Seals, Inc.
310 Nutmeg Road South
South Windsor, CT 06074
Phone: (860) 282-9100
Fax: (860) 282-9001
Toll: (877) PSI-SEAL
www.PressureSeal.com

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 ppi

Presure Seals, Inc.
310 Nutmeg Road South
South Windsor, CT 06074
Phone: (860) 282-9100
Fax: (860) 282-9001
Toll: (877) PSI-SEAL
www.PressureSeal.com